DEPARTMENT OF EARTH SCIENCES
IIT KANPUR

PLACEMENT BROCHURE 2023-24
About us

• The Department of Earth Sciences at IIT Kanpur focuses on the study of the Earth, encompassing its evolution and internal dynamics, its surface as well as subsurface processes, emphasizing natural and human-induced transformations of the terrestrial environment vis-a-vis sustainable development, given the biggest problem we face in terms of rapidly increasing population.

Objectives

• Integration of quantitative approaches and techniques across various earth systems and applications of geological, geophysical, and other related analytical methods. Training students and developing an aptitude for conjunctive use of field, experimental, analytical, and numerical approaches.

• Providing industry and research-oriented manpower in various fields of Earth Sciences.
“The BS-MS and M.Tech. students of the Department of Earth Sciences, IIT Kanpur get through academic training that includes course works on fundamental and applied Earth Sciences as well as hands-on training on analytical techniques relevant to our society. Particularly, they learn about natural resources (identification and exploration techniques), Solid earth geology, Quaternary geology, Sedimentology and Basin analysis, Natural Hazards, and Applied geochemistry, etc. Our students are well-trained with the theoretical aspects of hydrocarbon exploration from the basic to advanced stages, theoretical and practical Rock Mechanics, Rock Physics, and different geophysical exploration techniques with laboratory-based components. They visit several exploration industries, their mining sites, and beneficiary plants. In our teaching program, field geology is one of the essential components with emphasis on geological mapping and interpreting geological structures. IIT Kanpur campus environment encourages students to develop as better human beings, leaders, and team members.”
ACADEMIC PROGRAM

B.S
4 YEARS
PROGRAM
Students-126

DUAL
(BS-MS)
5 YEARS
PROGRAM
Students-126

M.TECH
2 YEARS
PROGRAM
Students-36

PHD
5 YEARS
PROGRAM
Students-70

Major Research Areas

River Morphology & Dynamics
Structural Geology & Rock Mechanics
Global Water Cycle, Glacier Mass Budget
Impact Cratering & Rock Magnetism

Active Tectonics & Paleoseismology
Tectonics, Geodynamics & Crustal Evolution
Earthquake cycle modeling, Friction Experiments

Exploration Seismology

Petrology, Geochemistry & Mantle Dynamics
Exploration Geophysics & Resource Exploration
Glaciology, Hydrology, Geomorphology, Flood Hazards

Cryospheric Processes, Paleoclimate
Planetary & Terrestrial Remote Sensing
River Science & Climate Change

Economic Geology & Mineral Exploration
Impact Cratering & Rock Magnetism

Earthquake cycle modeling, Friction Experiments
Global Water Cycle, Glacier Mass Budget

Petroleum, Geochemistry & Mantle Dynamics
Exploration Geophysics & Resource Exploration
Glaciology, Hydrology, Geomorphology, Flood Hazards

Cryospheric Processes, Paleoclimate
Planetary & Terrestrial Remote Sensing
River Science & Climate Change
Academic PG Courses

Major PG Courses

Remote Sensing and GIS for Geo Resource Evaluation
Geophysical Methods
Geology and Geochemistry of Petroleum
Rock Magnetism
Applied Sedimentology and Basin Analysis
Experimental Rock Mechanics and Rock Physics
Mineral Resource Exploration
Advanced Sedimentology and Basin Analysis
Solid Earth Geophysics
Quaternary Geology and Tectonic Geomorphology
Active Tectonics and Paleoseismology, Natural Hazards
Advanced Structural Geology
Geodynamics
Advanced Metamorphic Petrology
Introduction to Professional & communication skills in Earth Sciences
Physics of Earthquakes
River Science, Applied Hydrogeology
Aqueous, Isotope, Non-Traditional Isotope Geochemistry
Planetary Geomorphology Processes and Landforms
Academic UG Courses

Environmental Geology
Geochemistry
Engineering Geology and Hydrological Systems
Geology of Fuels

Fundamental of Earth Sciences
Fundamentals of Geophysics
Structural Geology

Major UG Courses

Economic Geology
Geological Remote Sensing and GIS
Sedimentary Processes and Stratigraphic Principles
Geological Evolution of Indian Plate

Fundamentals of Earth Sciences
Exploration Geophysics
Analytical Methods in Earth Sciences

Microstructures in Earth Sciences
Field Geology I, II and III
Igneous and Metamorphic Petrology
Mineralogy and Crystallography
Geomorphology and Earth Surface Processes

Geological Remote Sensing and GIS
Sedimentary Processes and Stratigraphic Principles

Institute-level Courses Open to Earth Science Students

- Fluid Mechanics and Rate processes
- Thermodynamics
- Probability and Statistics
- Data Mining and Knowledge Discovery
- Fundamental of Computing
- Data Structure & Algorithm
- Introduction to Machine Learning
- Image Processing
- Macroeconomics
- Engineering Graphics
Faculty members

Dr. Debajyoti Paul
Professor and Head
[Homepage]

Dr. Rajiv Sinha
Professor
[Homepage]

Dr. Deepak Dhingra
Associate Professor
[Homepage]

Dr. Animesh Mandal
Associate Professor
[Homepage]

Dr. Ishwar Kumar C
Assistant Professor
[Homepage]

Dr. Tajdarul H. Syed
Assistant Professor
[Homepage]

Dr. Anupam Banerjee
Assistant Professor
[Homepage]

Dr. Deepa Mele Veedu
Assistant Professor
[Homepage]

Dr. Thupstan Angchuk
Assistant Professor
[Homepage]

Dr. Javed N. Malik
Professor
[Homepage]

Dr. Santanu Misra
Professor
[Homepage]

Dr. Dibakar Ghosal
Assistant Professor
[Homepage]

Dr. Indra S. Sen
Associate Professor
[Homepage]

Dr. Amar Agarwal
Assistant Professor
[Homepage]

Dr. Rabiul H. Biswas
Assistant Professor
[Homepage]

Dr. Boddepalli Govindarao
Assistant Professor
[Homepage]

Dr. Hiranya Sahoo
Assistant Professor
[Homepage]

Dr. Sumit Chakraborty
Distinguished Visiting Professor

For any additional Information please visit the respective [Homepage] of faculties
Research Facilities

ESS1000 WITH 950-1000 Pound hammer (seismic energy source)

SYSCAL Junior R1 Plus Switch-72 Resistivity meter, SYSCAL Junior R1 Plus Switch, Iris Instrument, France

SYSCAL SWITCH Pro-48 Resistivity meter (EXTENSION UNIT), SWITCH Pro 48, Iris Instrument, France

Direct reading digital resistivity meter (DDR3), DDR3, Integrated Geo Instrument

PORTABLE MAGNETIC SUSCEPTIBILITY METER SM30, ZH INSTRUMENTS

SYSCAL SWITCH Pro-48 - 48 Resistivity meter (EXTENSION UNIT), SWITCH Pro 48, Iris Instrument, France

VLF INSTRUMENT, GSMV 19 GEM SYSTEMS INC. CANADA

Portable magnetometer, MagDrone R3, SENSYS

T-VLF by Iris Instruments, France

Digital Gravimeter, CG6 Autograv by Scintrex Canada

Proton Precision Magnetometer (Overhauser)

Multi-electrode Resistivity Meter (with 120 electrodes), Syscal R1 plus by Iris Instruments, France

Four Electrode Resistivity Meter, Aquameter CRM 500 by Anvic Systems, India

3C Tromino
Research Facilities

Ground Penetrating Radar

Terrain Mapping Image rower system, R10-V10, Trimble Europe

Thermal, multispectral, hyperspectral sensors

TX 8 scanner, Trimble Europe

He-gas Pycnometer

Fixed wing drone, UX5 Arial Imaging rover, Trimble Europe

Compression Testing machine, Heico Engg

Porosimeter-Permeameter, LP100A-GP101A, Porus Material Inc.

Triaxial load frame, WILLE GEOTECHNIK

Gas medium deformation rig

High pressure-temperature Adsorption Desorption setup

Pulse decay permeameter

Rock Cutting Machine, Abrismet 250, Bhuler USA
Research Facilities

- 30 MPa pressure vessel (triaxial cell)
- Scanning Electron Microscope EM, JSM-6010PLUS/LA, JEOL Asia Pte
- X Ray Diffraction, Panalytical XPERT3, Panalytical
- Rock core drill, CB700, Gemini enterprises
- ICPMS, iCAPq, ThermoFisher Scientific
- Gamma Spectroscopy ORTEC DSPEC jr 2.0
- Agilent® 8900 Triple Quad ICP-MS
- Total Station
- OSL Reader RISO TL/OSL READER MODEL DA-20
- Ion Chromatography, 930 Compact IC Flex, Metrohm
- Gas Pycnometer, PYC-10A, Porus Material Inc.
- Longitudinal wave transducers, Blue Star Engg
- Matric 600 Pro Hexacopter
The Research Scholar Day 2023 was a day-long event that brought together researchers, scholars, and students to showcase their work, discuss new ideas and developments, and collaborate on future research projects. The event featured talks from leading researchers in the field of Earth Sciences, as well as poster presentations and interactive sessions that allowed attendees to learn about the latest research and network with their peers.

**Schlumberger Day**

The IIT Kanpur, Earth Sciences department celebrated Schlumberger day in 2018 and 2019, where the students got the opportunity to participate in technical events like the case study presentation related to the geoscience domain.

The department is now looking towards spreading roots and establishing a promising relationship with the major oil and gas companies in India and abroad.
Synergy with other Departments

- **Material Science & Engg.**
  - Minerals, Material Characterization

- **Mechanical Engineering**
  - Geomechanics and Computational Seismology

- **Humanities**
  - Energy and Environmental Economics

- **Civil Engineering**
  - Engineering and Groundwater geology, Fluid dynamics, River Science

- **IME, Design**
  - Energy, Innovation

- **Mathematics and Statistics**
  - Data Structure, Statistics modeling, Statistical method in geology

- **Physics**
  - Nuclear and geochemical Prospecting, Thermodynamics, Atmospheric Processes, Fluid flow, Earth's Magnetism

- **Chemistry**
  - Rock, organic, and Aqueous Geochemistry, Environmental chemistry, Bio-chemistry,
Alumni Placements (On & Off-Campus)

IITK, SPO, Placement Stats

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Alumni Roles (On & Off Campus)
Name: Vinay Joshi  
Email Id: vinayjoshi22@iitk.ac.in

**Academic Record:**  
- M.Tech: 2022–24  
- M.Sc: 2016–18

**Skills:**  
- C, C++, Python, HTML, CSS, QGIS, Fusion 360, Excel, SQL, PowerPoint, Git  
- MATLAB, CorelDraw, LaTeX, PowerBI.

**Projects/Summer Training:**  
- Micropaleontological techniques on foraminifera and bivalves: Summer Intern at Wadia Institute of Himalayan Geology

**Work Experience or Position of Responsibility:**  
- Oil Field Instrumentation (India) Pvt. Ltd. (Dec ‘19 – Mar ‘22)  
- Department Placement Coordinator (SPO, IIT Kanpur)

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Name: Ankit Yadav  
Email Id: ankit22@iitk.ac.in

**Academic Record:**  
- M.Tech: 2022 – 24  
- B.Tech: 2017 – 21

**Skills:**  
- Python, Command line, MATLAB, MS Office  
- LaTeX, QGIS, GMT, Cloud Compare, LASTOOLS  
- Trimble GNSS, LAI sensors, Soil Moisture Sensors, Drones

**Projects/Summer Training:**  
- Implement Morphological Edge Detection Procedures
- Estimation of LAI of vegetation crops using UAV based LIDAR 3D Point Clouds data

**Work Experience/Position of Responsibility:**  
- DPGC Student Convenor for M.Tech  
- Department Placement Coordinator for M.Tech  
- Student Guide for Y23 students

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Name: Gourav Jaiswal  
Email Id: gouravj22@iitk.ac.in

**Academic Record:**  
- M.Tech: 2022–24  
- B.Tech: 2018–22

**Skills:**  
- Python, Git, Java, Canva  
- PowerBI, SQL, QGIS

**Projects/Summer Training:**  
- Physical Unclonable Function Prediction: Linear sparse Model to breach encryption of a PUF  
- CAPTCHA Prediction with Deep Learning

**Work Experience/Position of Responsibility:**  
- Core Member: Sopan Ashram  
- Vice President: Earth Science Society  
- Senior Secretary Officer: Udghosh at IITK  
- Head Prefect: Sacred Heart School

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Name: Anamika Sarkar,  
Email Id: anamikas22@iitk.ac.in

**Academic Record:**  
- M.Tech: 2022–24  
- M.Sc: 2019–21

**Skills:**  
- Geological fieldwork, ICPMS, EPMA, Gravitometer, Magnetometer, Resistivity meter, Ultrasonic Oscilloscope, Uniaxial and triaxial test apparatus, Python, Ms office, Git, CorelDRAW, QGIS, ArcGIS, MATLAB

**Projects/Summer Training:**  
- Petrography and Mineral Chemistry Analysis of Amphibolite Dykes of Simdega, Chotanagpur Gneissic Complex  
- Geochemical study of the carbonatite-hosted REE deposit of Kamthal, Late Cretaceous polychronous Sarnu Dandali alkaline complex, NW India  
- CO2 Flow Kinetics In Dual-Porous Anisotropic Jhanjra Coal: An Implication On Carbon Sequestration

**Position of Responsibility:**  
- Event Organiser for ES Society, IITK (Dec,22 – July,23)
**M.Tech Student Profiles**

**Name:** Divya Vani Gunturu  
**Email Id:** divya22@iitk.ac.in

**Academic Record:**  
- M.Tech: 2022-24  
- B.Tech: 2013-17  

**Skills:**  
- Python, SQL, Tableau, PowerBI, ML, Ms office  
- JavaScript, C#

**Projects/Summer Training:**  
- Familiarization of Digital Data on satellite Image  
- HR data analysis using SQL and PowerBI

**Work Experience/Position of Responsibility:**  
- Assistant System Engineer at TCS, Hyderabad  
- Database executive for ESS

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**Name:** Yeldurthi Ganesh  
**Email Id:** yeldurthi22@iitk.ac.in

**Academic Record:**  
- M.Tech: 2022-24  
- B.Tech: 2018-21  

**Skills:**  
- Python, SQL, Tableau, PowerBI, DSA, Machine Learning, Git and LaTeX  

**Projects/Summer Training:**  
- Credit Card Fraud Detection  
- Sales Analysis using SQL and Tableau

**Work Experience/Position of Responsibility:**  
- Student Organizing Member in Research Scholar’s day at IIT Kanpur, 2023.  
- Visited Government schools in villages and delivered interactive classes in local medium as a part of NSS.

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**Name:** Riddhiman Ghosh  
**Email Id:** riddhiman22@iitk.ac.in

**Academic Record:**  
- M.Tech: 2022-24  
- M.Sc.: 2020-22  

**Skills:**  
- R, Python, SQL  
- Gravimeter, Pycnometer, Permeameter, Ultrasonic Oscilloscope, Magnetometer  

**Projects/Summer Training:**  
- Evaluation of Drought Indices through Integration of Satellite Data and Numerical Modelling in Bundelkhand, India  
- Spatial distribution of Chromium in Soil from Kanpur and Source Analysis  
- CO2 Flow kinetic in Dual-porous Anisotropic Jhanjra Coal: An Implication on Carbon Sequestration  
- E-Training of Basics of GIS and its Application (GSITI, INDIA)  
- Paleontological and Stratigraphical Field Work  

**Position of Responsibility:**  
- TA at Earth Science Society, IITK  
- Coordinator at Paleontological Society Of India, North Zone

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**Name:** Anil Kumar  
**Email Id:** anilkr22@iitk.ac.in

**Academic Record:**  
- M.Tech ES: 2022-24  
- MSc Geology: 2016-18  

**Skills:**  
- Python, SQL, MATLAB  
- MS office, LaTeX, QGIS, Inkscape, helium pycnometer, Perple_X  

**Projects/Summer Training:**  
- Co2 Flow Kinetics in Dual-Porous Anisotropic Jhanjra Coal: An implication on carbon sequestration  
- Detecting a Rock or a Mine

**Work Experience/Position of Responsibility:**  
- Student Organizing Member in Research Scholar’s day at IIT Kanpur, 2023.  
- Visited Government schools in villages and delivered interactive classes in local medium as a part of NSS.
Name: Swarn Raj Singh  
Email Id: swarn22@iitk.ac.in

**Academic Record:**
- M.Tech: 2022-24
- B.Tech: 2018-22

**Skills:**
- Python, MATLAB
- SQL, Git, QGIS

**Projects/Summer Training:**
- Analysis of synthetic Quartz gouge to investigate mechanism of slow-fast earthquakes
- CNN Image Classification

**Work Experience/Position of Responsibility:**
- Engineer at TATA Projects Ltd (2018-2019)
- Senior Executive Udghosh 2022
- Cultural Secretary ESS 2023

Name: Sooraj Kumar  
Email Id: soorajk22@iitk.ac.in

**Academic Record:**
- M.Tech: 2022-24
- B.Tech: 2018-22

**Skills:**
- QGIS, GMT, Canva, LaTeX, Shell
- MATLAB, Python, Tensorflow, Git, Tableau, PowerBI, SQL
- Command Line

**Projects/Summer Training:**
- Quakecaster
- Investigation of slow-slip events preceding fast earthquake using a subduction zone analogue model: M. Tech Thesis
- Advanced Road extraction from multispectral high-resolution images.

**Work Experience/Position of Responsibility:**
- Student Guide in Counselling Service
- Teaching Assistantship
- Teaching volunteer at RSK Centre, IIT Kanpur

Name: Ashmita Dasgupta,  
Email Id: ashmitad22@iitk.ac.in

**Academic Record:**
- M.Tech: 2022-24
- MSc: 2019–21

**Skills:**
- Python, MATLAB, MS-Office, CorelDraw, GeoRose, GeoOrient, ArcGIS, QGIS
- Triaxial Apparatus, pulse decay permeameter, Ultrasonic oscilloscope, Gas pycnometer, XRD, Gravimeter, Magnetometer, Resistivity meter.

**Projects/Summer Training:**
- Estimation of variation of slope of River Teesta using QGIS
- Introduction to mining techniques and exploration schemes.
- Structural Study of grabens in Mars.
- Variation of petrophysical properties of tight porous rocks with differential stress.
- CO2 flow kinetics in dual porous Jhanjra Coal

**Work Experience/Position of Responsibility:**
- Post Graduate Workshop and Seminar Co-Ordinator (Industry and Academia), Earth Science Placement Team, IITK.

Name: Rishabh Yadav  
Email Id: rishabhy22@iitk.ac.in

**Academic Record:**
- M.Tech: 2022-24
- B.Tech: 2018-22

**Skills:**
- Python, MATLAB, Tensorflow, Git, Tablue, PowerBI, SQL
- Command Line

**Projects/Summer Training:**
- Quakecaster
- Investigation of slow-slip events preceding fast earthquake using a subduction zone analogue model: M. Tech Thesis
- Advanced Road extraction from multispectral high-resolution images.

**Work Experience/Position of Responsibility:**
- Working as teaching assistantship in RB Lab
- Worked as member in ESS and helped in organising events Freshers, Farewell and Sports Day
Name: Anubhav Jain  
Email Id: anubhavj22@iitk.ac.in

**Academic Record:**
- M.Tech: 2022-24
- B.Tech: 2018-22

**Skills:**
- Python, MATLAB, SQL
- Power BI, TABLEAU, Git

**Projects:**
- Calculating heat loss between layers of lunar crater
- Earthquake Magnitude Prediction using ML

**Position of Responsibility:**
- Company Coordinator, Student's Placement Office
- Senior Executive UDGHOSH 2022
- Secretary Creative Media and Publicity ESS 2022

Name: Pratik Chougule  
Email Id: pratikpc22@iitk.ac.in

**Academic Record:**
- M.Tech: 2022-24
- B.Tech: 2018-22

**Skills:**
- Python, MATLAB, SQL
- Power BI, TABLEAU, Git

**Projects:**
- 2D modelling of VLF-EM data for near surface app.
- Earthquake Magnitude Prediction using ML

**Position of Responsibility:**
- Senior Executive UDGHOSH 2022
- Head Sports Secretary ESS 2022
- Teaching Assistant ES655A.
## BS & Dual Student Profiles

### Name: Ashu Pal  
**Email Id:** ashup20@iitk.ac.in

**Academic Record:**  
- **BS- Earth Sciences:** 2020-24

**Skills:**  
- Python, C++, C, JavaScript.
- Machine Learning, Deep Learning.
- React, EJS, Flutter, Node.js, Express.js, Numpy, MongoDB.

**Projects/Summer Training:**  
- **SURGE (May’22-July’22):** Evaluation of Data Classification Methods for Mineralogy Application
- **UGP (Jan’23-May’23):** Evaluation of Floor Surface Roughness Properties of Stevinus Impact Crater on Moon
- **Data Science Intern (May’23-Aug’23):** Simple0
- **Data Science Intern (May’23-Aug’23):** Atreya.AI

**Work Experience/Position of Responsibility:**  
- Academic Department Mentor, ES, IITK
- Secretary, Dramatics Club, IIT Kanpur

### Name: Navneet Singh  
**Email Id:** snavneet20@iitk.ac.in

**Academic Record:**  
- **BS- Earth Sciences:** 2020-24

**Skills:**  
- Python, C++, JavaScript, Matlab
- Machine Learning, Deep Learning
- React, Pandas, scikit-learn, numpy

**Projects/Summer Training:**  
- **SURGE (May’22 - June’22):** Topic: Testing Deep Learning Models on LiDAR Data
- **Data Engineering Intern (June’23 - July’23):** Vaticineri Technologies

**Position of Responsibility:**  
- Head, Web and App, Antaragni’22, IIT Kanpur
- Secretary, Robotics Club, IIT Kanpur

### Name: Divam Badaya  
**Email Id:** divamb20@iitk.ac.in

**Academic Record:**  
- **BS- Earth Sciences:** 2020-24

**Skills:**  
- C++, Python, Scikit-Learn, TensorFlow, Power BI
- Data Analysis, Machine Learning, Deep Learning

**Projects/Summer Training:**  
- **Summer Analytics (Consulting and Analytics Club, IIT Guwahati) (Jun 23 - July 23):** Sentiment Analysis Using Deep Learning (Nov 22 - Dec 22)

**Work Experience/Position of Responsibility:**  
- Organizer, Web and App, Udghosh’23, IIT Kanpur

### Name: Himanshu Kumar  
**Email Id:** Himanshu20@iitk.ac.in

**Academic Record:**  
- **BS- Earth Sciences:** 2020-24

**Skills:**  
- C++, Python, JavaScript, Python, MATLAB
- NumPy, Pandas, ENVI, QGIS, Github

**Projects/Summer Training:**  
- **SURGE (May’22-Jul’22):** Evaluation of Data Classification Methods for Mineralogy Application
- **UGP (Jan’23-May’23):** Evaluation of Floor Surface Roughness Properties of Stevinus Impact Crater on Moon
- **Data Science Intern (May’23-Aug’23):** Simple0
- **Data Science Intern (May’23-Aug’23):** Atreya.AI

**Work Experience/Position of Responsibility:**  
- Academic Department Mentor, ES, IITK
- Secretory, Dramatics Club, IIT Kanpur

### Name: Navneet Singh  
**Email Id:** snavneet20@iitk.ac.in

**Academic Record:**  
- **BS- Earth Sciences:** 2020-24

**Skills:**  
- Python, C++, JavaScript, Matlab
- Machine Learning, Deep Learning
- React, Pandas, scikit-learn, numpy

**Projects/Summer Training:**  
- **SURGE (May’22 - June’22):** Topic: Testing Deep Learning Models on LiDAR Data
- **Data Engineering Intern (June’23 - July’23):** Vaticineri Technologies

**Position of Responsibility:**  
- Head, Web and App, Antaragni’22, IIT Kanpur
- Secretary, Robotics Club, IIT Kanpur
Name: Somya Misra  
Email Id: somyam20@iitk.ac.in

Academic Record:
• BS- Earth Sciences: 2020-24

Skills:
• Machine Learning, UNET
• Python, C++, JS, Git, AutoCad

Projects/Summer Training:
• Image Processing with ML- Prof.Amar Agarwal, (Assistant Professor, IITK)
• Fracture Detection using ML- Prof.Amar Agarwal (Assistant Professor, IITK)

Name: Pranjal Jain,  
Email Id: pranjal20@iitk.ac.in

Academic Record:
• BS, Earth Sciences: 2020-24

Skills:
• C, C++, Python, SQL
• Scikit-learn, Tensorflow, Keras, NLTK, LaTeX, AutoCAD, MS Office

Projects/Summer Training:
• Sentimental Analysis on Twitter Data | Cognic Systems Pvt Ltd
• Deep Learning: Vision Projects and Analysis| Cognic Systems Pvt Ltd
• Mobile Price Range Prediction | Cognic Systems Pvt Ltd
• Forecasting CO2 emissions: Course Project, Mentor: Prof. Deepak Dhingra
• Portfolio Optimization using Markowitz Model
• Compare Stock Returns with Google Sheets

Work Experience/Position of Responsibility:
• Dept. Undergraduate Committee | DUGC, IITK
• Department Academic Mentor | ES, IITK
• Cultural Secretary | Earth Science Society, IITK
• Secretary | Photography Club IITK

Name: Yashwant Devatwal  
Email Id: yashwantd20@iitk.ac.in

Academic Record:
• BS- Earth Sciences: 2020-24

Skills:
• Python, Java, C++, JS, Git, AutoCAD
• Flask, Django, QGIS

Projects/Summer Training:
• Mineral Properties Using Image Processing (Feb23-Apr23): Prof Amar Agarwal (Assistant Professor, IITK)
• Grain Boundary Identification (May23-Aug23): Prof Amar Agarwal (Assistant Professor, IITK)

Work Experience/Position of Responsibility:
• Secretary at Student film Society

Name: Sarthak Goyal  
Email Id: sarthakg20@iitk.ac.in

Academic Record:
• BS Earth Science: 2020 -24

Skills:
• Java, C++, Js, python
• Full stack development

Projects/Summer Training:
• Summer Analyst (May’23 -July’23) : Goldman Sachs
• Developer Intern (Sept’22 – Nov’22) : Redopact

Work Experience/Position of Responsibility:
• Member of chess team IIT Kanpur
Name: Tarun Beniwal  
Email Id: tarunb20@iitk.ac.in  

**Academic Record:**  
• BS Earth Sciences: 2019-24  

**Skills:**  
• C, C++, Algorithms, Python  
• HTML5, CSS, JavaScript, SQL, MATLAB, React, Matplotlib, Sklearn, Scipy, Seaborn, OpenCV, MS-Office  

**Projects/Summer Training:**  
• Software Developer Intern – Neurans Lab (May’23 – July’23)  
• Data Analyst – YoShops (May’23 – July’23)  

**Work Experience/Position of Responsibility:**  
• Organizer – Events, Udghosh’22, Annual Sports Festival, IIT Kanpur May’22-May’23  
• Senior Executive – Events, Udghosh’21, Annual Sports Festival, IIT Kanpur May’21-May’22  

Name: V Tarun Rao  
Email Id: vtrao20@iitk.ac.in  

**Academic Record:**  
• BS Earth Sciences: 2020-24  

**Skills:**  
• SQL, Python, Pandas, Numpy, PowerBI  
• MATLAB, ENVI, GMT (Generic Mapping Tool)  

**Projects/Summer Training:**  
• Finance Intern (Jul’23-Aug’23) at NIEI  
• Zomato Restaurant Data Analysis (Apr’23-May’23) using SQL and BI dashboards  

**Position of Responsibility:**  
• Sports Coordinator (Volleyball), Games and Sports Council, IIT Kanpur  

Name: Manish Kumar  
Email Id: kmanis@iitk.ac.in  

**Academic Record:**  
• BS Earth Sciences: 2019-24  

**Skills:**  
• C/C++, Python, JavaScript, SQL  
• Machine Learning, Numpy, Pandas, Matplotlib, Seaborn, Scikit Learn, Keras  

**Projects/Summer Training:**  
• Hotel booking cancellation and demand prediction  
• Stock prices prediction using machine learning and Python  
• Data visualization to track the coronavirus outbreak  

**Work Experience/Position of Responsibility:**  
• Principal Security Officer (PSO), Techkriti, 2022  

Name: Pranjal Pratap Dubey  
Email Id: dpratap@iitk.ac.in  

**Academic Record:**  
• BS – Earth Sciences: 2019-24  

**Skills:**  
• PM Utilities - Figma, Miro, Excel, PowerBI, Notion, G-Suite, SQL, Productboard, LaTeX, Sketch, Google Analytics  
• C, C++, Python, MATLAB, GoLang, Javascript, Java, Ruby,  

**Projects/Summer Training:**  
• Handwritten Arithmetic Expression Evaluator| ERA IITK  
• IITK-Coin  
• Doremon Den  

**Work Experience/Position of Responsibility:**  
• Product Management Intern, Alphawave Tech Pvt. Ltd.  
• Research Associate, ITAM Mexico  
• Research Associate, PIL IIT Kanpur  
• Vice President, ShARE, IIT Kanpur  
• Coordinator, Quiz Club, IIT Kanpur
Name: Sulakshna Mallik  
Email Id: sumallik@iitk.ac.in

Academic Record:
• BS + MS (Dual), Earth Sciences: 2019-24

Skills:
• C++, Python, SQL
• MS Excel, VBA, ArcGIS, ENVI, MATLAB, AutoCAD, LaTeX

Projects/Summer Training:
• Field Engineer Intern – Schlumberger (May’23–Jul’23)
• Summer Research Intern – National University of Singapore (May’22–Jul’22)
• Data Analyst Intern – ConnectedH (Aug’21–Sep’21)

Position of Responsibility:
• Founder and Overall Coordinator - Sustainability Cell, IITK
• Organizer | Public Relations, Techkriti’22

Name: Lavudya Rajkumar  
Email Id: lraj@iitk.ac.in

Skills:
• Python, HTML, CSS, SQL, C++*, Java Script, Advanced Excel, LaTeX, Tableau, Power BI, ReactJs, VS Code, Github, My SQL, flexbox

Academic Record:
• BS Earth Science: 2019-24

Projects/Summer Training:
• Omnifood – Responsive Web Design (self-project)
• SQL Data Exploration and Tableau Visualization (self project)
• Introduction to Data Analysis using Microsoft Excel (coursera project)

Work Experience/Position of Responsibility:
• Principal Security Officer | Techkriti’22, IIT Kanpur
• Senior Security Officer| Udghosh’22, IIT Kanpur
• Creative, Media & Publicity Secretary| Earth Science Society, IIT Kanpur
Field geology is vital for geologists as it directly gives them experience (evidence) of both endogenic and exogenic processes. It allows them to observe present and past geological processes, collect first-hand data to interpret the dynamic processes of the Earth to uncover valuable insights about its history and resources.

Field Photos

1. Image 1: Geologists examining rocks in the field.
2. Image 2: Students in a hilly landscape.
3. Image 3: Close-up of a rock formation.
4. Image 4: Geologists studying a fossil.
5. Image 5: A group of students in a desert environment.
7. Image 7: A geologist pointing to a rock feature.
8. Image 8: Geologists and students in a valley.
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