

Abhay Kumar

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Poornima University, Jaipur  
Bachelors of Technology: CGPA: 8.02

EDUCATION

Rajasthan, India  
August 2023 - Present

SKILLS SUMMARY

- **Languages:** Python, Java, C
- **Frameworks:** Pandas, NumPy, Scikit-Learn, Matplotlib, Tensorflow, PyTorch
- **Tools:** Flask, Django, MongoDB, SQL
- **Platforms:** Jupyter Notebook, Visual Studio Code, IntelliJ IDE
- **Soft Skills:** Rapport Building, People Management, Excellent communication

WORK EXPERIENCE

**Data Analyst Intern | VOIS** September 25 - October 25

- Worked on analytical projects including Unicorn Companies, Airbnb, and Netflix datasets to derive actionable business insights.
- Performed data cleaning, transformation, and exploratory data analysis (EDA) using Python and SQL to uncover patterns and trends.
- Created visual reports and plots with Matplotlib to communicate insights effectively, improving reporting efficiency and guiding strategic decisions.

**Machine Learning Intern | ONGC Dehradun** June 25 - August 25

- Developed a Lithology Prediction model to classify subsurface rock types using well log data, improving geological interpretation accuracy.
- Implemented K-Means Clustering models for electrofacies and formation zone identification, aiding reservoir characterization.
- Preprocessed and analyzed large-scale well log datasets (DEPTH, GR, RHOB, NPHI, etc.) for model training and evaluation.
- Collaborated with geoscientists to translate ML model outputs into actionable insights for subsurface exploration.

PROJECTS

**Lithology Prediction Model | [LINK](#)**

- Developed a machine learning model to classify subsurface rock types using well log data (DEPTH, GR, RHOB, NPHI).
- Improved geological interpretation accuracy and assisted in reservoir characterization.
- Preprocessed and analyzed large-scale well log datasets for model training and validation.

**K-Means Clustering Model | [LINK](#)**

- Implemented K-Means clustering to identify electrofacies and formation zones from well log data.
- Provided actionable insights for subsurface exploration and geoscientific decision-making.
- Collaborated with geoscientists to interpret model outputs effectively.

**YouTube Trending Videos Analytics Pipeline (In Progress)**

- Built a data pipeline to collect, clean, and process daily trending videos via YouTube API.
- Orchestrated workflows and stored data in a warehouse to support dashboards and ML analysis.
- Demonstrates experience in end-to-end data engineering, ETL processes, and analytics.

**Airbnb Data Analysis Project | [LINK](#)**

- Performed data cleaning, transformation, and exploratory data analysis (EDA) using Python and SQL on Airbnb datasets.
- Identified key patterns in pricing, occupancy, and host behavior to derive actionable business insights.
- Developed visualizations with Matplotlib to present data-driven insights clearly.

CERTIFICATES

**Infosys Springboard – AI Primer Program | [CERTIFICATE](#)**

- Completed a comprehensive curriculum focused on the fundamentals and applications of artificial intelligence. Gained skills in machine learning, deep learning, computer vision, natural language processing, data science, robotic process automation, and Generative AI, with an emphasis on real-world application and prompt engineering.

**SAS – Statistics and Machine Learning | [CERTIFICATE](#)**

- Completed advanced training in statistical methods and their application in machine learning. Topics included descriptive and inferential statistics, linear and logistic regression, bias-variance trade-off, model fitting, and deployment using SAS Viya. Prepared for predictive modeling and exploratory data analysis.

**NPTEL – Foundation of Cloud, IoT & Edge Machine Learning | [CERTIFICATE](#)**

- Studied emerging technologies that integrate cloud, IoT, and edge computing for real-time and delay-sensitive applications. Gained insights into distributed systems, MQTT/Kafka pipelines, containerization, and edge-based AI solutions.

**Google Cloud – Develop Generative AI Apps with Gemini & Streamlit (Skill Badge) | [CERTIFICATE](#)**

- Developed hands-on skills to build and deploy generative AI applications. Covered prompt engineering, text generation with Gemini, API integration, and app deployment using Streamlit and Cloud Run, demonstrating proficiency in modern GenAI development workflows.