Aarti

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EDUCATION

National Institute of Technology Karnataka (NITK) — Nov 2022 – Present
B.Tech in Mining Engineering; CGPA: 8.57 — *Surathkal, India*

Govt Girls Inter College — 2022
Class XII – 76% (UP Board) — *Uttar Pradesh, India*

Govt Girls Inter College — 2020
Class X – 81.33% (UP Board) — *Uttar Pradesh, India*

EXPERIENCE

Research Intern – "Impact of Mining on Groundwater using QGIS" — May 2025 – June 2025
Indian Institute of Technology (BHU) — *Varanasi, India*
- Performed geospatial analysis using QGIS to assess mining's effect on groundwater.
- Visualized and interpreted temporal water table changes across mining areas.
- Delivered actionable insights to aid sustainable water resource planning.

PROJECTS

Satellite Image to Map Translation using GAN | *Python, Pix2Pix* — Mar 2025 – May 2025
- Built a conditional GAN using U-Net and PatchGAN to translate satellite images into maps.
- Achieved high-fidelity map outputs through model optimization.

Credit Risk Analysis | *Python, XGBoost, Scikit-learn* — Sept 2024 – Dec 2024
- Built machine learning models on 100K+ loan records (Logistic Regression, XGBoost, Random Forest).
- Achieved 80% accuracy and AUC score of 0.95 after hyperparameter tuning using Grid Search.

Walmart Sales Forecasting | *Python, Linear Regression* — May 2024 – June 2024
- Analyzed weekly sales data and built a regression model (R^2 = 0.93, RMSE = 1309).

Pizza Sales Analysis | *SQL, Data Analysis, Visualization* — Dec 2023 – Jan 2024
- Performed sales trend and peak hour analysis using complex SQL queries.
- Created actionable dashboards to support data-driven sales decisions.

EXTRACURRICULAR ACTIVITIES

Entrepreneurship Cell (E-Cell)
Executive Member
- Promoted entrepreneurship programs across colleges, increasing participation from 40 to over 50 students.
- Led outreach initiatives that enhanced visibility and engagement by over 25%.

Films Club – NITK
Event Coordinator
- Coordinated 5+ film screenings during Incident and Film Fest, attracting 100+ students per event.
- Managed logistics, technical setup, and promotions to ensure engaging events.

Society of Mining Engineers (SME), NITK Chapter
Event Coordinator
- Led coordination of academic and professional events under the SME NITK chapter.
- Collaborated with peers and faculty to manage guest sessions, logistics, and event flow.

SKILLS

Languages: C++, C, Python, HTML, CSS, JavaScript, SQL
Frameworks: Numpy, Pandas, Scikit-learn, Matplotlib, Tailwind CSS
Tools: Jupyter Notebook, Google Colab, VS Code, SQL
Soft Skills: Communication, Leadership, Teamwork, Event Management