Krishna Kumar

20232027
Bachelor of Technology
in Chemical Engineering
Motilal nehru National Institute of Technology , Allahabad

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EDUCATION

Degree	Institute	Board / University	CPI/Percentage	Year
B.Tech Chemical	National Institute of Technology , Allahabad	NIT Allahabad	6.3(Till 5th Sem)	2023-2027
Senior Secondary	Rishi Galav School	RBSE	96.8%	2021
Matriculation	Rishi Galav School	RBSE	89.83%	2019

PROJECTS

- **Financial Fraud Detection System - ML Project** *Feb 2026*
  Analyzed 6.3M+ financial transactions to predict fraudulent activity and identify high-risk patterns using machine learning. **App link**
  - Tools technologies used: Python, Pandas, NumPy, Scikit-learn, Seaborn, Matplotlib,streamlit .
  - To develop a high-precision security solution that identifies fraudulent bank transfers in real-time, reducing financial loss through proactive anomaly detection. Exploratory Data Analysis (EDA): Performed extensive analysis on the PaySim dataset to identify multi-collinearity and transaction trends, leading to the strategic removal of 6 redundant columns to improve model generalization. Optimized a Logistic Regression classifier specifically to handle extreme class imbalance, utilized Precision-Recall and ROC-AUC curves for validation and deployed the end-to-end solution as an interactive web application on Streamlit.

- **TalentScout - AI Recruitment Bot** *jan 2026*
  Built a full-stack AI application to streamline the recruitment process by conducting initial technical screens. **App Link**
  - Tools technologies used: Python, Streamlit, Groq API (Llama 3, Whisper), Git/GitHub.
  - Engineered a context-aware logic engine using Llama 3 (via Groq Cloud) to analyze candidate profiles and autonomously generate relevant technical assessment questions based on their specific tech stack. Integrated multimodal AI capabilities by implementing the Whisper V3 Turbo model for real-time Speech-to-Text conversion, enabling candidates to interact with the system via voice or text.Architected a stateful Streamlit interface using Session State to manage conversation history (memory), ensuring the AI maintains context across multi-turn dialogues.

- **Bank Loan Approval Data Analysis** *Mar 2025- Apr 2025*
  Analyzed historical bank loan data to uncover patterns in loan approvals and rejections. **Github**
  - Tools technologies used: Power BI, Microsoft Excel, Seaborn, Python, Pandas, Matplotlib,Data sources(kaggle).
  - Developed interactive dashboards and visualizations (bar charts, pie charts, scatter plots) to highlight approval trends, high-risk applicant profiles, and demographic influences. Identified key approval factors such as credit history and income-to-loan ratio, and used insights to propose recommendations for minimizing default risk.

TECHNICAL SKILLS

- **Programming Languages**: Python, Sql, Html,Oop
- **Frameworks/Libraries**: Power BI, Microsoft Excel & Seaborn, Python, Pandas, Matplotlib
- **Developer Tools**: Visual Studio Code, Jupyter Notebook & Google Colab
- **Cloud/Databases**: Mysql & Postgresql
- **Soft Skills**: Communication skill, Team work,Teaching skill & Leadership skill.
- **Areas of Interest**::Data Analyst,Machine Learning ,Deep Learning , Artificial Intelligence.

KEY COURSES TAKEN

- **CSE & Maths**:Introduction to python , Database Management System ,Structure Query Language ,Object Oriented Programming in python ,Machine Learning ,Numerical Methods

CERTIFICATIONS

- **Power bi** Toturialpoint
- **Excel** Toturialpoint
- **Structure Query Language** Hackerrank

POSITIONS OF RESPONSIBILITY

- **Secretary**,Athletic club , NIT Allahabad *Aug. 2024 - Sept. 2025*

ACHIEVEMENTS

- **SQL**,Solved 100+ SQL problems on LeetCode, GeeksforGeeks, and HackeRank to strengthen skills *2025*
- **Social Activity**,Taught underprivileged students and raised awareness about education in Soch Badlo Gaav Badlo Initiative.