

CHHOTU KUMAR (CK RAJPUT)

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EDUCATION

MOHYAL INSTITUTE OF TECHNOLOGY

Master Computer Application (MCA)

ONLINE

Jan. 2025 – Present

MAHARAJA SURAJMAL BRIJ UNIVERSITY

Bachelor's Degree

BAYANA

July 2019 – Aug. 2022

EXPERIENCE

AIML Engineer

MapleCloud Technologies

Feb. 2025 – Present

Noida, Uttar Pradesh

- Boosted real-time headcount object detection using Python, FastAPI, and YOLOv8, Integrated with CCTV through RTSP for seamless object detection and real-time analytics deployed with Docker for scalability and efficiency.

Data Scientist- Executive

GYPRC PVT. LTD.

March 2023 – Feb 2025

New Delhi, India

- Collaborated with cross-functional teams to define requirements, design models, and 20 deliver impactful data-driven solutions using R, Python, Power BI, SQL, and Jupyter Notebook, Google Colab, and VS Code.
- Developed and executed a machine learning model to predict water quality and potability, leveraging EC, TOC, THMs, Hardness, and Turbidity parameters, using SciKit-Learn for analysis or predicting.
- Designed an innovative model for precise prediction of All India AQI levels from user-provided latitude and longitude, utilizing unstructured data within an API, using Python, Pandas, Harversine, Streamlit, and significantly enhancing nationwide strategic decision-making and surpassing baseline accuracy by 18%.
- Promoted the Automated File Retrieval System, leveraging OpenAI embeddings, ChromaDB, and Streamlit for semantic search, enhancing file retrieval precision by 60% across 5 departments.
- Built an advanced detection system using YOLOv8 for real-time monitoring of safety equipment within production lines; resulted in identifying non-compliance issues in only three out of ten inspections per month on average.
- Applied advanced R programming expertise, successfully completing 15+ data analysis projects with superior visualization techniques ggplot2, dplyr, enhancing EDA processes, and delivering Decision Tree or Random Forest models with 85-90% accuracy for classification, regression, and probability predictions.
- Led and mentored a team of 7 data scientists/analysts, driving the execution of various Data Science (Proof of Concepts) projects and ensuring high performance and project success using AWS, Git.

Data Scientist Trainee

Intellipa Software Solutions PVT. LTD.

Aug. 2022 – March 2023

Remote, India

- Developed real-time data extraction techniques, boosting efficiency by 25% and saving over 10+ hours per week.
- Engineered predictive models to reduce churn by 50-60 cases, achieving an 89% accuracy rate in churn prediction.
- Established retention strategies, decreasing churn by 500-600 cases and significantly improving customer retention.
- Created and maintained engaging interactive dashboards in Power BI using SQL Server, DAX, and Power Query; streamlined data visualizations for five key business units to facilitate informed decision-making across the organization.

PROJECTS

LLM Q&A Chatbot | Python, NLP, LangChain, LLM, OpenAI, RAG, Streamlit

Aug. 2023 – Sept. 2023

- Innovated and devised a LangChain Q&A Chatbot using Streamlit, OpenAI GPT-3.5-turbo, RAG, enhancing user interaction and information retrieval with advanced NLP techniques.

Finance Application | Python, FastAPI, React.js, Git, Linux

June 2023 – July 2023

- Overhauled a finance app using Python, FastAPI, and React.js to enhancing user experience, streamline data entry and boosting performance by 30% through form and backend optimization.

TECHNICAL SKILLS

Skills: Communication, Leadership, Teamwork, Strong Stakeholder Management.

Tools: R, Python (NumPy, Pandas, Seaborn, SKLearn, TensorFlow, Keras, PyTorch), Statistics, Data Analysis, Machine Learning, Deep Learning, Computer Vision, NLP, Transformers, VectorDB, OpenAI (LLMs), Gemini AI (LLMs), Generative AI, SQL, NoSQL, Git/GitHub, Streamlit, FastAPI, Power BI, Tableau, AWS, Big Data (Hive, PySpark).

Models Built: Linear Regression, Logistic Regression, Random Forest, XGBoost, YOLOv8, Transformers (LLMs), OpenAI (LLMs), Gemini (LLMs), AutoGen.