UNNIKRISHNAN R S

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TechnicalSkills

Languages and Databases: Python (Pandas, NumPy), SQL, MySQL

MLOps & Cloud: MLFlow, DVC, DagsHub, Docker, Airflow, AWS, CI/CD, Grafana

Machine Learning: Scikit-learn, XGBoost, LightGBM, Supervised and Unsupervised Learning, Optuna

Web Scraping: BeautifulSoup, Selenium

Generative AI Tools & Frameworks: OpenAI, Llama, Hugging Face, LangChain, Langsmith, CrewAI, Ollama

Experience

LOGICPLUM   **August 2023 – Present**
Data Scientist   Kerala, India

- Achieved a **95% on-time project completion rate** by leading a team of five data scientists, promoting collaboration and quality assurance processes, and successfully managing multiple projects concurrently.
- **Reduced project completion time by 40%** by taking initiative in implementing **MLOps workflows**, introducing standard operating procedures across various projects.
- Increased team productivity by **20% by developing a structured onboarding program**, which improved new data scientist integration and accelerated readiness for project contributions.
- Drove **cross-departmental alignment** by facilitating collaboration between datascience, product, and engineering teams, while engaging directly with clients to align project goals with business objectives, ensuring deliverable clarity and **increased stakeholder trust**.
- Promoted from Associate Data Scientist to Data Scientist, Senior Data Scientist, over a span of three years, reflecting consistent performance, expertise, and **leadership** growth.

Projects

Electronic Medical Record Risk Categorization Platform | Python, Airflow, SQL, Scikit-Learn, NLP, MLOps

- Developed an end to end EMR risk analysis and categorization platform to replace human medical coders by utilizing **NLP** techniques, **supervised machine learning algorithms**, and various **MLOps tools**, reducing categorization **time by 99%**.
- Created an **Apache Airflow ETL Pipeline** to streamline the process of extracting, transforming and loading the data to **SQL Server Database** on a daily basis, reducing the data cleaning and processing **time by 40%**.
- Created Inference **API's using Flask**, Fast API, performed containerization using **Docker and deployed the models to production using AWS**.
- Collaborated closely with project managers and client teams, facilitating project development and stakeholder

AI-Powered Staff Scheduling Platform for Hospitals | Python, Scikit-Learn, Time Series Forecasting, FastAPI, SQL

- Built an AI-powered staff scheduling application to optimize daily workforce allocation in hospital environments, reducing overstaffing and improving operational **efficiency by 30%**.
- Designed a predictive model using **time series forecasting and supervised learning** to estimate daily patient inflow, allowing dynamic staff scheduling based on real-time and historical data.
- Deployed scalable inference **APIs using FastAPI** and Flask to enable real-time predictions and staff scheduling updates.
- Integrated reporting features for shift management, staff attendance logs, and cost analysis, enabling hospital management to make informed staffing decisions and **maximize profitability**.
- Collaborated with hospital admins and HR teams to **fine-tune scheduling algorithms** and ensure alignment with regulatory compliance and operational policies.

AI-Powered EDA Report Generator with LLM Insights | Python, Pandas, Seaborn, Scikit-Learn, OpenAI , NLP, PDF Report Generation

- Developed an automated **EDA tool** that reads any dataset, generates visualizations, and produces a structured, downloadable PDF report **reducing manual analysis effort by 90%**.
- Integrated **OpenAI's GPT** model to generate **human-readable insights, describe plots, highlight trends, and suggest data** improvements directly within the report.
- Implemented a pipeline to **detect missing values, outliers, imbalanced classes, and other data quality issues**, along with AI-powered recommendations for resolution.
- Structured the report with **dataset overview, visual analysis, AI-generated findings, problem areas, improvement tips, and a conclusion** exportable as a polished **PDF**.

Education

Kerala University, Kerala   **Apr 2018 - Mar 2022**
Bachelors in Computer Science   Kerala

Awards & Achievements

• **Best Performer Q4 2024**: Received the Best Performer Award for maintaining on-time delivery and efficiency to 100% over a span of 3 months.

• **Runner-Up Company Innovation Challenge**: Recognized as the runner-up in a company-wide Innovation Challenge by ideating and developing a project from scratch that provided impactful and practical benefits to the organization.