Aryan Kumar

⌗ GitHub | in LinkedIn | 🌐 Portfolio | ✉ Email | ▮ 6204815914

Experience

IBM Edunet Foundation
June 2024 – Aug 2024

Frontend Developer Intern — Remote

- Constructed responsive UI components using **React.js, HTML, CSS, and JavaScript**, ensuring smooth user experience.
- Integrated **REST APIs**, cutting average API response time by 20% and delivering faster data to improve user experience.
- Collaborated with team members to debug, test, and deploy features, maintaining accuracy and quality standards.
- Authored documentation to simplify complex frontend workflows, improving team onboarding efficiency.

Projects

AWS Pipeline for YouTube Trend Analysis | *AWS (S3, Glue, Athena), PySpark, QuickSight*   **GitHub**

- Architected and built a scalable, **serverless software application** on **AWS** using **S3, Glue, and Athena**.
- Engineered an automated **ETL workflow** with **PySpark** to process over **100,000 records**, deploying it as a resilient data service.
- Integrated the backend data service with a BI tool (**QuickSight**) via **SQL APIs** to deliver key performance metrics.
- Implemented a robust data validation and **error-handling framework** in **Glue**, ensuring **99%+** processing accuracy for the application.

Amazon Review Sentiment Analysis | *Python, NLP, Hugging Face*   **GitHub**

- Formulated a **sentiment analysis model** classifying 50,000+ reviews with VADER and RoBERTa, achieving 23% higher accuracy over baseline.
- Executed text preprocessing on **50,000+ reviews** using **Pandas and NLTK**, performing tokenization, normalization, and stop-word removal to enhance model input quality.
- Generated **visualizations (8+ charts)** with Matplotlib/Seaborn to compare lexicon vs transformer-based approaches.

E-Commerce Analytics | *SQL, Python (Pandas, NumPy, Matplotlib, Seaborn)*   **GitHub**

- Designed and normalized **database schema for 500K+ orders** using ER modeling.
- Executed advanced **SQL queries** to identify revenue trends and customer distribution across 100+ cities.
- Produced **10+ interactive Python visualizations** to track product performance, improving decision-making efficiency by 30%.

AI-Powered Resume and Cover Letter Generator | *Python, Streamlit, LangChain, Groq LLM*   **GitHub**

- Developed an **AI-powered web application** using **Streamlit and LangChain** to generate personalized, ATS-friendly resumes and cover letters.
- Integrated **Groq LLMs (Llama 3, Mixtral)** for intelligent text generation, improving content quality and job alignment accuracy by 90%.
- Enabled secure resume uploads with **PyPDF2** and dynamic PDF generation using **FPDF** for instant downloads.
- Designed an **privacy-focused interface**, enhancing user experience and ensuring secure handling of personal data.

Certifications

- Career Essentials in Data Analysis – **Microsoft & LinkedIn**   **view**
- AWS Fundamentals   **view**

Education

SRM University, Andhra Pradesh
2022 – 2026

B.Tech in Computer Science and Engineering — CGPA: 8.06/10 (current)

Technical Skills

Programming Languages	Python (Pandas, NumPy, PySpark), SQL, C++, ReactJS
Data Engineering & Big Data	Apache Spark, PySpark, Databricks, Apache, Kafka, Airflow, Data Lake
Cloud Platforms & Services	AWS (S3, Glue, Athena, Lambda, EC2), Snowflake, Docker
Databases	MySQL, PostgreSQL, Data Modeling, Query Optimization
AI & Machine Learning	Machine Learning, GenAI, NLP, LangChain, Scikit-Learn
Data Visualization & BI	Power BI, Tableau, MS Excel

Achievements

- Won hackathon by designing and building **"Hirrd,"** a full-stack, scalable job portal with a secure authentication module.