BATHULA EMMANUEL JIREH

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Summary

- Data Science & AI professional with expertise in **ML, DL, NLP, and MLOps**, skilled in building and deploying scalable models using **TensorFlow, PyTorch, and Scikit-learn**.
- Proficient in **Python, SQL, Power BI, Spark, and Hadoop** with strong skills in **data preprocessing, feature engineering, and model optimization**.
- Experienced in deploying **AI/ML solutions on cloud (AWS/GCP/Azure)** using **Docker and REST APIs**.

Skills

- **Programming:** Python, SQL,HTML, CSS, JavaScript
- **Machine Learning & AI:** ML, DL, NLP, RAG, LLMs, Sentiment Analysis, Recommendation Systems, TensorFlow, PyTorch, Scikit-learn, Numpy, Pandas
- **MLOps & Deployment:** MLflow, Docker, Flask, FastAPI, REST APIs, Git/GitHub, CI/CD
- **Cloud & Big Data:** AWS (Glue, S3, EC2),Azure, Spark, Hadoop, PySpark, ETL pipelines
- **Data Visualization & Analytics:** Power BI, Tableau, Excel, Matplotlib, Seaborn, Plotly
- **Web Scraping & Data Extraction:** BeautifulSoup, APIs
- **Developer Tools & Workflow:** Jupyter, VS Code, Anaconda, Google Colab

Experience

Data Science Intern   April 2025 – Present
RamanaSoft Consulting Services , Hyderabad

- Built and deployed ML models for **fraud detection and sentiment analysis**, improving prediction accuracy by **12%** through optimized feature engineering.
- Automated ETL workflows for data preprocessing, reducing data preparation time by **30%**.
- Designed interactive **Power BI dashboards**, improving reporting efficiency and enabling faster decision-making for stakeholders.
- Developed **NLP models for text classification**, achieving **85% accuracy** on IMDB sentiment dataset.
- Deployed ML models using **Docker & Flask APIs**, enabling real-time inference and reducing response time by **25%**.
- Conducted exploratory data analysis (EDA) and feature selection on large datasets, uncovering key insights that improved model performance by **10%**.

Projects

AI Fact-Checking System (CrewAI) — *Python, Streamlit, CrewAI, RAG*   Aug 2025

- Designed multi-agent AI system integrating **RAG + web search** for claim verification, reducing misinformation detection time by **40%**.
- Built **Streamlit dashboard** for public use, enabling real-time fact-checking from text, web, and YouTube inputs.

NLP Text Processing (IMDB Dataset) — *Python, NLTK, Scikit-learn*   July 2025

- Developed sentiment analysis model achieving **85% accuracy**, leveraging preprocessing, TF-IDF vectorization, and model tuning.
- Improved classification performance by **10%** through feature selection and hyperparameter optimization.

MLOps Global Super Store Project — *Python, Scikit-learn, MLflow*   June 2025

- Built end-to-end **sales forecasting pipeline** with automated MLflow tracking, improving forecast accuracy by **15%**.
- Deployed models with version control and reproducibility, reducing model update time by **25%**.

Blinkit Sales Analytics Dashboard — *Power BI, SQL, DAX*   May 2025

- Designed interactive **Power BI dashboards** to visualize sales, revenue trends, and customer insights.
- Automated reporting pipeline with SQL + Power Query, reducing manual reporting effort by **35%**.

Certifications

- McKinsey.org Forward Program – McKinsey & Company View Credentials   *July 2025*
- AI-Powered Marketer – Semrush View Credentials   *May 2025*
- Data Analytics Job Simulation – Deloitte Australia View Credentials   *April 2025*
- AWS Cloud Computing Certification – Honeywell View Credentials   *September 2023*

Education

Samskruti Collage of Engineering and Technology   November 2020 – July 2024
B.Tech CSE(DATA SCIENCE) – CGPA: 6.2   *Hyderabad, Telangana*