Uttam Gogineni

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SUMMARY

Data Scientist with **9+ years of experience** in **machine learning, predictive analytics, and statistical modeling**. Proficient in **Python, SQL, Pandas, NumPy**, and ML frameworks such as **Scikit-learn, TensorFlow, and PyTorch**. Extensive experience working with **big data tools (Spark, Hadoop) and cloud platforms (AWS, Azure, GCP)** to develop and deploy scalable ML solutions. Strong background in **data engineering, feature engineering, and model optimization** for high-impact business applications.

SKILLS

- **Databases & SQL**: Complex SQL queries, joins, subqueries, relational databases (PostgreSQL, MongoDB)
- **Machine Learning & Deep Learning:** Scikit-learn, TensorFlow, PyTorch, XGBoost
- **Data Analysis**: Data cleaning, transformations, EDA, large dataset handling, Excel
- **Statistical Modeling & Predictive Analytics**: Regression, Classification, Clustering, Time Series Analysis
- **Big Data & Cloud Computing**: Spark, Hadoop, AWS (S3, Lambda, SageMaker), Azure (AKS, Cognitive Services), GCP (BigQuery)
- **Software Testing**: Test case execution, data validation, debugging
- **Programming**: SQL, Python (Pandas, NumPy), scripting for automation
- **Agile/Scrum**: Experience working in Agile development teams
- **Tools & Technologies**: PostgreSQL, MongoDB, BigQuery, Tableau, JIRA

PROFESSIONAL EXPERIENCE

HP **Palo Alto, CA**
Data Scientist **06/2023-Present**

- **Designed and optimized SQL queries to retrieve, process, and analyze large datasets, improving reporting efficiency by 30%.**
- Developed **machine learning models** using **Scikit-learn and TensorFlow**, achieving a **25% improvement in forecasting accuracy**.
- **Optimized data workflows** using **MongoDB** for unstructured data and **PostgreSQL** for structured data, achieving **25% faster query performance** for high-volume transactions.
- Spearheaded the implementation of **vector databases** for embedding storage, enabling efficient retrieval in **retrieval-augmented generation (RAG)** systems.
- Managed relational databases (PostgreSQL, MongoDB) to store and structure data for analytics teams.
- Collaborated with cross-functional teams to **deploy AI solutions as APIs**, ensuring secure, compliant data exchange and facilitating enterprise-wide integration in regulated environments.
- Built **big data pipelines** with **Spark and SQL**, reducing ETL processing time by **40%**.
- Deployed ML models on **AWS SageMaker and Azure ML**, enabling real-time **predictive analytics**.
- Applied **statistical modeling techniques** to optimize financial and operational forecasts.

BRIGHT POWER **West Palm Beach, FL**
Sr. Data Scientist **03/2021-06/2023**

- Developed and deployed **AI-powered predictive maintenance models**, achieving a **20% reduction in operational costs** and significantly enhancing system reliability.
- Designed and implemented **scalable FastAPI microservices** for real-time predictions, ensuring seamless integration with backend systems and high-performance analytics delivery.
- Performed SQL query optimizations to enhance data retrieval efficiency for business reports.
- Optimized **data pipelines** for processing large-scale datasets with **Apache Spark**, enhancing model training efficiency and delivering actionable insights for enterprise applications.
- Utilized **retrieval-augmented generation (RAG)** techniques and vector databases for efficient storage and retrieval of embeddings, improving the accuracy and speed of generative AI solutions.
- Conducted software **testing and test case execution** to validate data integrity before deployment.
- Collaborated with cross-functional teams to align **AI/ML strategies** with business objectives, integrating predictive and generative AI models to streamline processes and improve operational efficiency.
- Implemented end-to-end data pipelines and automated data refresh cycles to ensure ReactJS dashboards displayed the most current and relevant information, reducing manual intervention and increasing efficiency.

- Collaborated with cross-functional teams, including data engineers and backend developers, to align data processing workflows with frontend data requirements, enhancing overall system performance and reliability.

HOBBY LOBBY **Oklahoma City, OK**

Data Scientist **12/2019-03/2021**

- Contributed to the development of **ReactJS components** for e-commerce features, seamlessly integrating AI-driven product recommendation systems that significantly improved the **customer experience and personalization**.
- Designed and implemented **Flask and FastAPI endpoints** that provided real-time product suggestions, which were efficiently consumed by the ReactJS frontend, resulting in a 10% boost in user engagement and click-through rates.
- Performed **Exploratory Data Analysis (EDA)** on customer purchase data to uncover key insights and trends, and developed interactive data visualizations using ReactJS to aid the marketing team in strategic decision-making.
- Utilized **PostgreSQL** for comprehensive backend data operations, writing and optimizing complex SQL queries that supplied data to ReactJS visualizations, ensuring data accuracy and fast retrieval times.
- Developed and tested **responsive and interactive ReactJS features**, enhancing site performance, reducing load times, and improving overall site responsiveness, which contributed to a more engaging user experience.
- Improved frontend performance by implementing **ReactJS best practices**, including component optimization and lazy loading, which resulted in faster page loads and a smoother shopping experience for users.
- Collaborated closely with the backend development team to integrate APIs and ensure seamless communication between the **ReactJS frontend** and data-driven backend services.
- Assisted in conducting **user experience testing** for ReactJS components, gathering feedback to refine features and ensure they met user needs and expectations, enhancing the usability of the e-commerce platform.
- Supported continuous deployment processes by ensuring React components were tested and optimized before integration, contributing to a stable and high-performing website.

GOOD NEIGHBOR PHARMACY **Brooklyn, NY**

Data Analyst **11/2017-12/2019**

- Analyzed **large datasets** to derive actionable insights, developing AI/ML models to predict sales trends and customer behavior for improved decision-making.
- Designed and implemented **data preprocessing and cleaning workflows**, streamlining pipelines to ensure high-quality input for machine learning models.
- Utilized **SQL** and **BigQuery** for efficient data retrieval, supporting advanced analytics and predictive modeling tasks.
- Built and deployed **automated pipelines** to handle data ingestion, processing, and integration with predictive models for real-time analytics.
- Applied advanced statistical methods and machine learning algorithms to uncover patterns and trends in sales and customer data, enhancing forecasting accuracy.

ARICENT **Chennai, India**

Jr. Data Analyst **05/2015-11/2017**

- Assisted in gathering, cleaning, and organizing large datasets, displaying analysis results via **ReactJS** interfaces.
- Conducted EDA using Python.
- Created detailed reports and visualizations using **React** and **R Shiny**, improving the efficiency of data presentations.
- Developed SQL queries to retrieve and manage data efficiently and created interactive features in React for user-friendly access.
- Collaborated with teams to convert complex data into accessible visualizations using Tableau and related web technologies.

EDUCATION

GOLDEN GATE UNIVERSITY **San Francisco, CA**

Master of Science in Business Analytics **08/2024**

- Awards: honorary student

JNTUH **Hyderabad, India**
Bachelor of Technology, Major in Computer Science and Engineering **04/2016**

CERTIFICATIONS

- Post graduate diploma in Data science
- LLMOPS Duke University
- Python For Data Science, IBM