Yash Patil

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Education

Santa Clara University **September 2023 – June 2025**
Master of Science in Computer Science and Engineering (GPA: 3.53 / 4.00) *Santa Clara, CA*
Coursework: Artificial Intelligence, Design and Analysis: Algorithms, Operating Systems, Computer Architecture

Rajarambapu Institute Of Technology **August 2016 – October 2020**
Bachelor Of Technology in Computer Science and Engineering *Sangli, India*
Coursework: Data Structure using C, Discrete Mathematics, Advanced Database System, Machine Learning

Technical Skills

Languages: C, C++, JAVA, Python (NumPy, Pandas, Matplotlib, Scikit-Learn, PySpark, PyTorch, Koalas), JavaScript, SQL, MYSQL, R, Go, Ruby, Bash
Frameworks and Tools: Apache Spark, Scala, Databricks, Apache Flink, Apache Kafka, Tableau, PowerBI, Microsoft Azure, AWS, TensorFlow 2.0, Matlab, Snowflake, Git, Flask, Docker
Certifications: Generative AI with Large Language Models, Microsoft Azure for Data Engineering, Complete Machine Learning and Data Science Bootcamp, AI For Everyone, Introduction to Python for Data Science

Experience

Samvid **July 2024 – September 2024**
AI Intern *Remote*
- Developed and deployed advanced algorithms and system architectures to implement LLMs and ML models for enterprise-level solutions, resulting in a 20% increase in client project efficiency.
- Engineered a document search chatbot using LLMs, focusing on handling crucial client data that cannot afford hallucinations, accommodating data in any format. Evaluated various models, including OpenAI, Mistral Large, Llama 3.1, Gemini, and Claude, to ensure optimal performance and accuracy.

Santa Clara University **January 2024 – September 2024**
Data Scientist (Student Assistant) *Santa Clara, CA*
- Led the academic data analysis for the university's transition to the Workday Student platform, optimizing data workflows and reducing processing time by 25%.
- Applied machine learning models to identify patterns and anomalies in institutional data, which led to a 15% improvement in data-driven decision-making processes.

Searchspring **April 2023 – August 2023**
Data Engineer *Remote*
- Spearheaded the implementation of Integrated Spell Correction (ISC) for 400 clients, enhancing search accuracy and increasing client satisfaction by 30%.
- Deployed predictive AI models that identified and corrected search anomalies, reducing client-reported issues by 20%.
- Built a PySpark-based real-time data pipeline that improved processing efficiency by 40% across a portfolio of 1,400 e-commerce clients.

Anju Life Sciences Software **March 2021 – December 2022**
Data Scientist Engineer *Pune, India*
- Engineered and refined TA-Scan 7, enhancing data processing efficiency by 45% and expanding coverage to 32 clinical trial registries, securing adoption by a top 5 global pharmaceutical company.
- Led the development of Python-based in-house data scraping tools, reducing annual costs by over $200,000, and created data visualization dashboards, utilizing SQL stored procedures, which improved decision-making across teams.
- Initiated and led the development of the company's DATA API, securing contracts with major clients such as ResMed, Daiichi, and Roche, increasing revenue by 10%.

Projects

Document Search Chatbot using LLM | *Python, PyTorch, Flask, Docker*
- Developed a chatbot utilizing LLM to search and retrieve specific information within documents based on content, providing users with both the relevant information and the source document, which improved search experience by 30%
- Enhanced query response accuracy through model fine-tuning, resulting in a 20% reduction in search time, and deployed the solution using Flask and Docker for scalability, enabling efficient information retrieval across large document collections.

Predicting Heart Disease Using Machine Learning | *Python, Pandas, Matplotlib, Scikit-Learn*
- Built and optimized a predictive model to diagnose heart disease from clinical data, achieving a proof-of-concept accuracy of 95%. Documented and structured code for reproducibility and ease of deployment.