Suchit Bhayani

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EDUCATION

University of California San Diego

Bachelor of Science in Data Science, Minor in Mathematics

• GPA: 3.9/4.0

• Relevant Coursework: Data Management, Scalable Analytics, Data Mining, Data Visualization, Probability, Statistics

SKILLS

- Languages: Python, JavaScript, Java, SQL (SQLite, PostgreSQL, NoSQL), R, HTML/CSS, Bash
- Libraries: pandas, PySpark, dask, scikit-learn, NumPy, scipy, plotly, seaborn, Matplotlib, BeautifulSoup, pytest
- Frameworks: PyTorch, TensorFlow, Keras, React, Express, Node.js, D3.js, FastAPI, JUnit
- Tools: AWS (S3, EC2), Azure (DevOps), Databricks, Docker, Git, GitHub Actions, Apache Hadoop/Spark, MapReduce, MLflow, MongoDB, Linux/Unix, Tableau, Excel, Word

EXPERIENCE

Nike

June 2025 - Aug. 2025

San Diego, CA

Expected: June 2027

- Designed governance frameworks for enterprise machine learning, generative AI, and business intelligence infrastructure
- Engineered Databricks workflow leveraging MLflow to automatically flag ethics violations in deployed models
- · Scaled a recommender system using PySpark, enabling product similarity recommendations for consumers

UC San Diego | Data Science Department

Data and Machine Learning Engineer Intern

Jan. 2025 - Present

Teaching Assistant

- Tutor for DSC 20: Programming and Data Structures (Python), DSC 30: Data Structures and Algorithms (Java)
- Apply understanding of Python and Java via office hours and online question-answering platform

UC San Diego Health | Li Lab

Oct. 2024 - Present

Machine Learning Researcher

- Engineer and clean datasets with pandas to build regression models to identify and analyze drivers of stem cell renewal
- Perform time series differential gene expression analysis in R to identify biologically significant gene clusters

$\mathbf{WorldQuant}$

June 2024 - Dec. 2024

- Quantitative Research Consultant
 - $\bullet \ \ Research, implement, and \ backtest \ over \ 500 \ trading \ strategies \ with \ \textbf{FastExpression} \ for \ potential \ portfolio \ integration$
 - Present research of high performing alpha strategies (2.83 Sharpe) to portfolio managers and executives

Digital Prudentia

June 2024 - Sep. 2024

Data Science and Engineer Intern

- Utilized retrieval-augmented generation (RAG) with Azure OpenAI to develop a skin cancer detection model
- Created workflow to link internal documents with imaging data to the model, enabling contextually relevant insights
- Applied prompt engineering and hyperparameter tuning to fine-tune the model and optimize performance

PROJECTS

Music Recommender System

Full-Stack Development, Software Engineering, Agile Development, REST API, Containerization, MERN Stack

- Built personal music recommender and analyzer with React, Express/Node. js, and FastAPI, containerized using Docker
- Integrated MongoDB, Spotify OAuth 2.0, and managed API communication between frontend, backend, and ML service
- Developed CI/CD pipeline with GitHub Actions to automate testing, building, and deployment across all services

Personalized AI Health Insights

Big Data, Scalable Systems, Natural Language Processing (NLP), Healthcare AI, Data Engineering

- Developed a data pipeline in dask to efficiently process and analyze millions of Apple Watch health data points
- Engineered health insight generation pipelines with fine-tuned HuggingFace LLMs, enabling health-specific inferences
- Built an interactive dashboard using plotly to visualize trends, insights, and actionable recommendations

Accelerating ML with Automated Feature Engineering

AutoML, Large Language Models, Statistical Feature Selection

- Automated an ETL pipeline with OpenRouter API for integrating LLM domain knowledge into the AutoML paradigm
- Validated performance of generated features using XGBoost and RandomForest models across 3 benchmark datasets