

Sahil Bhagchandani

[✉ sahil.bhagchandani520@gmail.com](mailto:sahil.bhagchandani520@gmail.com) | [LinkedIn](#)

Experience

Walmart Global Tech

United States

SOFTWARE ENGINEER – AI

Jan. 2023 - Present

- Engineered and deployed generative AI pipelines using **Python Flask, Hugging Face Transformers, Node.js API and React UI** to support use cases such as content summarization, automated report generation, and chatbot development
- Developed scalable **data preprocessing** pipelines using **Pandas** and **SQL** to handle multi-million row datasets, ensuring high-quality input for model training and inference
- Designed, fine-tuned, and served **Large Language Models (LLMs) (BERT, LLaMA)** via **Node.js** and **Python Flask** microservices, enabling text classification, entity recognition, and semantic search with 90% accuracy
- Designed and implemented machine learning and deep learning models including **RAG, Gradient Boosting, XGBoost, and Logistic Regression** to solve problems in text classification, entity recognition, semantic search, and predictive analytics
- Built interactive dashboards and performance analytics using **Tableau** and **Looker**, enabling business stakeholders to monitor model performance, data drift, and usage metrics in real-time
- Implemented **A/B testing** and model evaluation frameworks to compare multiple model versions using statistical metrics like **F1-score, precision, recall, and BLEU scores**

Intuit

United States

SOFTWARE ENGINEER INTERN

May. 2022 - July. 2022

- Assisted in developing AI-powered **content recommendation system** using **React, Nodejs, LangChain** and **Pinecone VectorDB**, resulting in a 40% increase in user engagement
- Developed a multi-model AI assistant integrating **OpenAI GPT**, enhancing customer support efficiency by 60%
- Implemented a real-time document analysis pipeline using **LlamaIndex** and **PostgreSQL**, processing over 1M documents daily with 99.9% accuracy
- Performed time series analysis using techniques such as **VAR (Vector AutoRegression)** and **NNAR (Neural Network AutoRegression)** to model temporal patterns, detect trends, and forecast system metrics and user behavior
- Development of a **Generative AI platform** for creating synthetic **training data, improving model performance** by 30% across various use cases

Skills

Programming Languages Python, Java, JavaScript, SQL, Go

Databases and Framework GraphQL, MySQL, PostgreSQL, Databricks, Redshift, PyTorch, Tensorflow, FastAPI, React, Tableau, Looker

AI/ML Technologies GenAI, LangChain, RAG, BERT, RoBERTa, GPT, NumPy, Pandas, Transformers, Scikit-learn

Cloud Technologies Azure, AWS EC2, ECS, ECR, Docker, Kubernetes

Testing Tools Jasmine, Junit, Langsmith, TruLens, PyTest, Hydra

Source Control Management Git, TFS, Linux

Certifications AWS Security Fundamentals, Cisco Python Essentials

Soft Skills Communication, Collaboration, Problem Solving, Teamwork

Education

San José State University

San Jose, California

MASTER OF SCIENCE IN COMPUTER SOFTWARE ENGINEERING

Jan. 2021 - Dec. 2022

Indus University

Gujarat, India

BACHELORS OF TECHNOLOGY IN COMPUTER ENGINEERING

Aug. 2016 - Jun. 2020

Publication

Imbalanced Network Traffic Intrusion Detection Using Deep Learning

Aug. 2022 - Dec. 2022

- Applied **Edited Nearest Neighbor (ENN)** and **K-Means** clustering to separate easy and hard samples, reducing redundant majority-class data by up to 99.9% while preserving critical minority patterns
- Leveraged **Python, Scikit-learn, and TensorFlow** to build, train, and benchmark ML/DL pipelines, optimizing hyperparameters, batch sizes, and learning rates to prevent overfitting

Projects

Automated Car Parallel Parking System

Sep. 2022 - Dec. 2022

- Implemented Convolutional Neural Network (CNN) algorithms to detect, identify, and locate available parking spaces based on sensor data
- Technology Stack: Python, C++, Node.js, React, ROS2, Raspberry pi, Breadboard, Sensors, Infrared camera**

COVID-19 Face Mask Detection

Sep. 2021 - Dec. 2021

- Employed TensorFlow and NumPy for model development, preprocessing, training, and testing, ensuring robust performance and accuracy
- Technology Stack: Python, NumPy, TensorFlow, OpenCV, YOLO, CNN**