

Vishnu Reshamwala

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EDUCATION

California State University Channel Islands, Camarillo, CA	Aug. 2023 - May 2025
Master of Science in Computer Science (GPA: 3.9/4.0)	
Bhagwan Mahavir College of Engineering and Technology, Surat, India	Jul. 2018 - May 2022
Bachelor of Engineering in Computer Engineering (CGPA: 7.85/10.00)	

RELEVANT COURSEWORK

Neural Networks, Pattern Recognition, Cloud Architecting, Advanced Database Systems, Artificial Intelligence, Machine Learning, Linux System Administration, Analysis & Design of Algorithms, Cyber Security

TECHNICAL SKILLS

- Programming Languages: C/C++, Java, JavaScript, TypeScript, Python
- Tools/Technologies: Git, Docker, CI/CD, Amazon Web Services (AWS), Google Cloud Platform (GCP)
- Web & App Development: HTML, CSS, SQL, React, Node, Next, Express, PostgreSQL
- Machine learning: TensorFlow, Keras, Pytorch, NumPy, Pandas, Scikit-Learn, Matplotlib, Amazon Sagemaker

PROJECTS

GPT-2 Reproduction and Optimization from Scratch (PyTorch)

- Reproduced the GPT-2 (124M) neural network architecture and training process, based on GPT-2 paper
- Optimized training using techniques like mixed precision, distributed data parallelism, and Flash Attention, achieving significant speed improvements and validating performance on standard datasets

Retrieval-Augmented Generation (RAG) AI Agent (LangChain, FAISS, LLaMa, HuggingFace Transformers)

- Architected an AI agent using Retrieval-Augmented Generation (RAG) to provide context-aware responses
- Implemented document loading, vector storage, and retrieval using LangChain and FAISS. Integrated LLaMa language model for generating context-aware responses
- Created an interactive command-line interface for real-time user queries, enhancing information retrieval from a local document corpus

Stock-Forecasting-App (Tensorflow, Keras, Streamlit)

- Developed a stock prediction app leveraging Python, Streamlit, and Yahoo Finance with Facebook Prophet for forecasting
- Designed and implemented an interactive UI for stock selection, historical data viewing, and 4-year price predictions with Plotly
- Optimized performance through caching mechanisms, resulting in faster data processing and a more responsive user experience

Yelp Clone (React, Express, PostgreSQL)

- Constructed a simplified Yelp clone with a React front-end, Express server, and PostgreSQL database
- Developed a dynamic UI for seamless data interaction and imported 500,000+ Yelp entries into the database

EXPERIENCE

IT Help Desk Student Assistant | *On-Campus*

Aug. 2024 - Present

- Delivered technical support to faculty, staff, and students, effectively resolving network, application, and A/V issues
- Managed and prioritized incidents using TeamDynamix, collaborated with team members on complex technical problems, and utilized scripting and research to optimize service delivery
- Developed strong troubleshooting, system management, and communication skills, contributing to enhanced problem-solving capabilities and efficient service operations

CERTIFICATIONS & ACHIEVEMENTS

Machine Learning by Stanford University (Coursera) Grades Achieved: 100%	Mar. 2024
AWS Academy Graduate - AWS Academy Cloud Architecting	Dec. 2024
AWS Academy Graduate - MLU Machine Learning through Application	Dec. 2023
CSUCI Mission & Amazon Web Services (AWS) Hackathon Event	Sept. 2023
<ul style="list-style-type: none">• Won the CSUCI, Mission & AWS Hackathon by collaborating with a team to solve technical challenges using AWS services in a gamified competition hosted by AWS, Mission, and CSUCI Computer Science	
Artificial Intelligence Club Member	Sept. 2023 - Present
<ul style="list-style-type: none">• Active member of CSU Channel Islands university club centered around Artificial Intelligence topics	