

# DARRYL VAS PRABHU

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## EDUCATION

**Master of Science: Computer Science**, The State University of New York at Buffalo, February 2024

**Bachelor of Engineering: Electronics & Communication**, Visvesvaraya Technological University, May 2017

## PROFESSIONAL EXPERIENCE

**Technical Support Engineer, Dell Technologies, Bengaluru, India**, July 2017 - June 2022

- Analyzed product logs using regular expression tools: grep, awk, sed, and Python scripts, to assist on-site engineers, VMware, Linux, Cisco, and escalation engineering teams in identifying the root cause of high-priority Storage Area Network (SAN) incidents, performance issues and providing quick resolution to enterprise customers.
- Published multiple Knowledge Base articles and delivered SAN training to the team, reducing the inflow of service requests and positively impacting business. Received Dell Inspire awards: Bravo, Cheers, Delight, and Shoutout for high customer satisfaction and consistent results.

## PROJECTS

**Sports Performance Pro Web Application:** Python, HTML, CSS, JavaScript, Flask, MySQL, AWS

- Develop a workout and training session tracking responsive web application for coaches and athletes.
- Leverage asynchronous Fetch API, and AJAX calls to send GET and POST requests to the flask server which connects to the relational database for data retrieval.
- Iterative product development on client feedback. Initiate GitHub Issues/Enhancement requests and lead the team during the product testing phase. Application delivered to the client hosted on AWS EC2 instance.

**Info-Extractor:** Google Gemini API, Streamlit, Python

- Built a web app that extracts information from images and generates responses based on input prompts. The generation inference is performed using google-pro-vision API, Google's latest large language model.

**Retrieval Augmented Generation (RAG):** HuggingFace, PyTorch, LLM, Python

- Developed RAG command-line AI application to answer context-based queries from uploaded pdf files using sentence transformer all-mpnet-base-v2, Mistral AI's Mistral-7b-Instruct-v0.2 and Meta's Faiss search index.

**Multi-Client Transmission Control Protocol Chat application:** C programming

- Implemented client & server text chat application based on TCP/IP Socket programming. Enabled clients to log in, send/block individual, or broadcast messages to/from other connected clients.

**Deep learning & machine learning:** PyTorch, Pandas, NumPy, Jupyter, Scikit-learn, Seaborn, Matplotlib

- Implementation of Linear Regression, Logistic regression, Naive Bayes, Hidden Markov Model, and Random Forest on Kaggle datasets. Utilize seaborn/matplotlib libraries to plot the training vs test results and interpret model accuracy. Conducted Sentiment Analysis using RNN, bi-RNN, and LSTM models on the IMDB dataset.

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, C, C++.

**Frameworks/Tools:** PyTorch, HuggingFace Transformers, LangChain, NumPy, Pandas, Scikit-learn, Matplotlib, Wireshark, Flask, HTML, CSS, jQuery, AJAX, SQLAlchemy, DataTables, Postman, MySQL, PostgreSQL, MongoDB, Streamlit, Linux, Git, Azure

## CERTIFICATIONS

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| • Microsoft Certified: Azure Fundamentals   | • Intel Certified Developer - MLOps Professional       | • MongoDB Associate Developer                  |
| • Postman - API Fundamentals Student Expert | • Dell Technologies Associate - Networking Version 1.0 | • Information Storage and Management Version 3 |