DARRYL VAS PRABHU
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EDUCATION

Master of Science: Computer Science and Engineering, University at Buffalo, Dec 2023
Bachelor of Engineering: Electronics and Communication, Visvesvaraya Technological University, May 2017

PROFESSIONAL EXPERIENCE

Technical Support Engineer, Dell Technologies, Bengaluru, India, Jul 2017 - Jul 2019

- Developed Python scripts and utilized Regex tools (grep, awk, sed) to analyze product logs, providing resolution for enterprise customers.
- Engineered solutions for critical Storage Area Network (SAN) incidents, particularly for Dell EMC VPlex storage, collaborating with cross-functional teams including VMware, Linux, Cisco, and Oracle.

Technical Support Engineer 2, Dell Technologies, Bengaluru, India, Aug 2019 - Jun 2022

- Resolved a major Storage vMotion bug impacting 90% of customers, reducing related service requests by 85% through rigorous JIRA documentation and performance optimization.
- Authored technical Knowledge Base articles on VPlex and mentored junior engineers by reviewing their incident reports.
- Delivered SAN performance training, significantly reducing inbound service requests, and improving team efficiency.
- Received multiple Dell Inspire awards for consistently high customer satisfaction and technical excellence.

PROJECTS

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

- Engineered a responsive workout tracking web application for coaches and athletes.
- Implemented asynchronous data handling using Fetch API and AJAX to communicate with Flask backend, optimizing data retrieval from MySQL database.
- Led iterative development process, incorporating client feedback, and managing GitHub Issues/Enhancement requests, ensuring robust user experience.
- Successfully deployed and hosted the application on AWS EC2 instance, delivering a scalable solution to the client.

Info-Extractor: Google Gemini API, Streamlit, Python

- Engineered a web application that extracts information from images and generates responses based on input prompts.
- Integrated Google's latest large language model (google-pro-vision API) for generation inference.
- User interface is using Streamlit for seamless user interaction.

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

- Designed and implemented a command-line AI application for context-based query answering from PDF files.
- Utilized 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 user authentication, individual messaging, message blocking, and broadcasting features.
- Ensured efficient communication between multiple connected clients.

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

- Implemented various machine learning algorithms (Linear Regression, Logistic Regression, Naive Bayes, Hidden Markov Model, Random Forest) on Kaggle datasets.
- Conducted performance analysis using Seaborn/Matplotlib to visualize and interpret model accuracy.
- Demonstrated proficiency in data manipulation, model training, and results interpretation.

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, Google Collab, Jupyter Notebooks

CERTIFICATIONS

- Microsoft Certified: Azure AI Fundamentals, Azure Fundamentals
- Oracle Certified: OCI Generative AI Professional
- Intel Certified Developer: MLOps Professional
- MongoDB Associate Developer