Riddhi Shah

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PROFESSIONAL SUMMARY

Master's in Computer Science graduate with more than one year of experience, proficient in Python, with a strong foundation in Software Development Practices Artificial Intelligence, Machine Learning and Cloud Technologies. Highly detail-oriented professional recognized for excellent communication, teamwork, and collaboration skills. Known for adhering to best practices and coding standards, with passion for problem solving.

SKILLS

Programming Languages: Python, Java, C++, SQL.
Frameworks & Libraries: Large Language Model, LangChain, Flask, MySQL, HTML, CSS.
Development Tools: Algorithms design, Unit test, Pytest, Docker,Kubernetes, Git, Linux.
Certification: Microsoft Certified: Microsoft Azure Fundamentals, Microsoft AI Associate, Microsoft AI Fundamentals.

EXPERIENCE

Software Developer(AI/ML)
Synechron Canada Inc.

Nov 2023 – present
Toronto, Canada

- Built a Generative AI based code generation tool using a local LLM (Mistral, Pandalyst and GPT3) from Hugging Face, achieving 95% accuracy with validation by LLM as a Judge.
- Led MLOps development for a real-time anomaly detection microservice for seamless integration and scalability.
- Created Flask API for Elasticsearch data retrieval and built logging system to enhance process mining capabilities.
- Developed a python dashboard with Azure Document Intelligence and GPT-3 model to calculate carbon emissions
- Collaborated in an Agile environment, participating in sprint planning, regular team meetings, and code reviews.
- Trained, validated, and fine tuned ML models, developing RESTful APIs for seamless integration with application
- Maintained CI/CD pipelines in GitHub Actions/Jenkins for automating software testing, building, and deployment

Software Developer II Intern
Cisco Systems

May 2023 - Aug 2023
Ottawa, Canada

- Integrated simulation and routing tools using Python in a networking environment, enhancing system functionality.
- Optimized scale testing using Python multi-threading, creating 200k virtual nodes for large-scale simulations.
- Streamlined TCP/UDP connectivity and automated IP address registration (IPv4/IPv6) for virtual nodes.
- Optimized system performance by focusing on scalability and reliability CI/CD pipelines using GitHub.

Machine Learning Intern
Applied Cloud Computing (ACC)

Nov 2019 – Dec 2019
Thane, India

- Developed a movie recommendation system using the Object2Vec algorithms, achieving 70.4% accuracy.
- Orchestrated data pipeline, encompassing data preparation, feature engineering, model training and testing.
- Implemented a scalable cloud infrastructure on AWS leveraging Amazon S3, EC2 and SageMaker.

PROJECTS

Trip planner using AI Agents | *Python, Langchain, Crew AI, AI Agents* | Link
- Created an AI trip planner with Crewai and LangChain using multi agent collaboration for itinerary generation.
- Integrated Ollama phi4 model for generating data and Serper API for real-time web search to gather travel details.

Steam game recommendation | *Python, Hadoop, Spark, Flask, Big data, SQL* | Link
- Developed a Flask REST API for a game recommendation model based on users' past purchases.
- Performed exploratory data analysis using PySpark on large dataset, achieving 84% accuracy.

Face mask detection | *Python, Matplotlib, Sklearn, Pytorch* | Link
- Trained an Deep learning model using Convolutional Neural Network to detect mask and categorize mask types.
- Utilized Python libraries like NumPy and Pandas and achieved an accuracy of 73.4% on the validation model.

EDUCATION

Concordia University
Master of Computer Science

Montreal, QC, Canada
Jan 2022 - Jan 2024

Mumbai University
Bachelor of Information Technology

Mumbai, India
Aug 2017 - June 2021