Rishi Kumar

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Education

Stevens Institute of Technology, NJ, MS in Applied Artificial Intelligence, **3.7 GPA**   Sep 2022 - May 2024
Pillai College of Engineering, INDIA, B.Eng in Electronics and Computer, **7.8 GPA**   Sep 2015 - May 2019

Experience

Radical AI, NY, Applied AI Engineer   Sep 2024 - Present

- Contributed to developing the AI quiz app "Mission Quizify" using Streamlit, enhancing UI and data processing capabilities.

- Assisted in implementing data pipelines with PyPDFLoader, LangChain, and ChromaDB for efficient system performance.

- Integrated Vertex AI and Google Gemini models to generate context-driven quiz questions, leveraging for better accuracy.

- Managed GitHub deployment and SDK authentication, contributing to documentation and project demonstrations.

Teledyne LeCroy, NY, Software Engineer Co-Op   Sep 2023 - May 2024

- Functioned as a Software Developer, upgrading QPHY solutions and improving overall software quality.

- Implemented testing protocols and automated Python scripts, enhancing product reliability and reducing error rates by 15%.

- Conducted comprehensive pre-release testing, identifying & resolving bugs, strengthening functionality and user satisfaction.

- Enhanced USB 3 RX/TX scripts to support Host Program Control, creating a script to test HPC on QPHY for USB.

- Developed a QPHY solution for PCIe Fixture kit characterization for Gen 4 and 5, including a script for thorough testing.

Paras Defence and Space Technology Ltd, INDIA, Software Developer   Nov 2019 - Jun 2022

- Functioned as a Data Analyst, analyzing client requirements and delivering tailored solutions, ensuring accurate data insights.

- Implemented CI/CD pipelines and developed backend systems using Python and Flask, boosting performance by 30%.

- Created and integrated RESTful APIs to facilitate seamless communication between client and server-side applications.

- Worked on embedded technology projects, utilizing MicroPython and C++ for IoT devices and hardware integration.

- Applied ML algorithms to optimize PID parameters in motorized applications, resulting in a 25% increase in efficiency.

- Implemented object detection using machine learning and OpenCV for Project Periscope, enhancing visual capabilities.

- Administered SQL and NoSQL databases (SQLite, MongoDB), focusing on database design and query optimization.

Skills

Technical Skills: Python, SQL, R, Java, C++, JavaScript
Cloud Computing: AWS, Azure, GCP.
AI Skills: Supervised/Unsupervised Learning, Regression, TensorFlow, PyTorch, Keras, LLM, Transformers, Langchain.
Data Skills: Tableau Prep builder, Tableau, Power BI, Alteryx, Redshift, Snowflake, dbt, Spark, Airflow, Databricks.
Additional Skills: Git, Perforce, Data Structures, Algorithms, Natural Language Processing, CI/CD, Docker, Kubernetes.

Projects

Spotify API Data Pipeline *Python, Airflow, Docker, AWS S3, Snowflake, dbt, Localstack, Looker Studio*
Engineered an ELT pipeline to extract Spotify data from playlists, simulating AWS S3 with Localstack, loading data into AWS S3, copying it to Snowflake, transforming it with dbt, and visualizing results in Google Looker Studio through Docker orchestration and Airflow management, enhancing data processing efficiency by 70%.

Flights Data ETL Pipeline using AWS *Python, AWS S3, AWS Lambda, AWS Redshift, ETL, Data Engineering*
Engineered a robust ETL pipeline utilizing AWS services to automate the extraction of flight data from S3, transforming it with Python scripts, and loading into a data warehouse, enhancing processing efficiency by 60%.

Kidney Disease Classification with Deep Learning *Python, MLflow, DVC, AWS EC2, Docker, Deployment*
Engineered a robust classification system for kidney disease using MLflow for experiment tracking, DVC for data version control, and deployed on AWS EC2 with Docker, ensuring efficient and scalable real-time predictions.

StockView: A Flask-Based Stock Analysis Platform *Python, Flask, HTML, CSS*
Built a web application using Flask to analyze stock data, implement real-time updates, and provide an intuitive user interface for seamless interaction.