Maneesh Reddy Palem Gonegary

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Result-driven graduate with 2+ years of work exp. seeking internship roles (May '24) in SDE/ML/AI/DS

EDUCATION

State University of New York at Stony Brook, *MS in Computer Science* | Stony Brook, NY   Aug 23 - May 25
BITS Pilani, Hyderabad, *B.Tech in Computer Science*   May 18 - Aug 22

EXPERIENCE

Rupifi, *Software Engineer)* | Remote | *Go, Python, Redis, gRPC, RabbitMQ, Postgres, SQL, Java*   Jul 2022 - Aug 2023
- Primarily engaged with iterative development, integration and maintenance of internal and external APIs.
- Developed our own webhook mechanism for sending, receiving and managing webhooks - improved anchor engagement by **32%**. Developed caching and logging mechanisms for team services - reduced average bug resolution time by **72%**. Implemented a file management system by integrating AWS S3 for scalable object storage.
- Developed and integrated cross-team microservices including messaging/whatsapp, link shortener, email services among others. Served as database steward and actively managed team's database with SQL queries.

Flipkart, *Software Intern* | Remote | *Java, Python, Docker, Kubernetes, Micronaut, Spring*   Jul 2021 - Dec 2021
- Containerized and deployed team services onto Kubernetes clusters.Development and management of CI/CD Jenkins pipelines. NFR testing using Python scripts and Locust. Developed and integrated REST and gRPC APIs.
- Leveraged collaborative filtering to build a modified product recommendation model based on order history and individual product specifications.

Convergent, *Software Intern* | Remote | *Kotlin, PyTorch, TensorFlow, Keras, Python, Java*   May 2020 - July 2020
- Leveraged content-based filtering to develop a gym recommendation model based on user workout goals, workout style, location and possible peer compatibility.
- Developed a fitness tracker app that included a personally tailored calorie counter, step counter and activity tracker improving upon Google's pre-existing step counter. Increased accuracy by **62%**

PROJECTS

Predicting Flight Delays | *Python, Selenium, BeautifulSoup, pandas, R Studio, ggplot2, dplyr*   Oct 2023 - Dec 2023
- Exploratory analysis of causes of flight delays across the US including weather conditions, cascading delays and geographic location. Data analysed and visualized using R.
- 30 GB of flight delay and weather data scraped using Python, Selenium and BeautifulSoup. Predictive models built to predict flight delay utilising LSTM and XGBoost and achieved a R2-squared coefficent of **0.98**

Recognition of Ocular Diseases | *Python, Colab, TensorFlow, Keras*   Oct 2023
- Developed Intelligent Ocular Disease Recognition Model utilizing deep learning to enhance existing methods with multi-class and multi-label classification techniques.
- Keras CNN model with EfficientNetB3 model pre-trained on ImageNet data used for training. Global average pooling layer used to reduce spatial dimensionality, ReLU activation for feature extraction and softmax activation for producing probabilities. Model compiled using a Adam optimizer and returns an accuracy of **89%.**

Chat application for APIs | *LLM, Python, GPT, SQL, Kafka, Streamlit, SQL, Airflow, Spark*   Oct 2023
- Built a GPT-powered application to interact with and extract information from any API. Web app built using the streamlit framework. LangChain's React SQL Agent used to interact with the SQL database
- Data is streamed from API to Kafka topic. Data consumed from Kafka topic, processed and transferred to PostgreSQL database by Spark job. Apache Airflow used for handling execution of streaming and processing.

Blockchain based Supply Chain App | *Python, Flask, JavaScript, jQuery, React*   Jan 2023 - April 2023
- Developed a full-stack web application using Python with Flask serving a REST API with the dashboards implemented using HTML/CSS/JavaScript from scratch.Simulated a blockchain with public/private keys generated using RSA and Proof-of-Work mining done using SHA-256.

Image Caption Generator | *Python, TensorFlow*   Dec 2022
- Leveraged ResNet and LSTM models to build an image captioning model.

SKILLS

Languages	Go, Java, Python, C/C++, SQL, JavaScript, HTML/CSS, R, Kotlin, Rust, Ruby, C#
Frameworks	React, Node.js, Flask, Micronaut, Springboot, Gin
Libraries	jUnit, SciPy, OpenCV, scikit-learn, pandas, NumPy, Matplotlib, BeautifulSoup, pytorch, sklearn, selenium
Developer Tools	Git, Docker, Google Cloud Platform, AWS, VS Code, R Studio, Jupyter, Colab, VSCode
Courses	Machine Learning, Artificial Intelligence, Computer Vision, Data Science, Data Analysis