Hrithik Puppala

Linkedin: https://www.linkedin.com/in/hrithik-puppala/

Portfolio: https://hrithik-puppala.vercel.app/

EDUCATION

San Jose State University

Masters of Science in Computer Software Engineering; Specialization: Data Science

California, United States
August 2023 - Present

Phone: (+1) 669-312-8661

Email: hrithik.puppala@sjsu.edu

Sricity, India

August 2017 - June 2021

Indian Institute of Information Technology

Bachelor of Technology in Computer Science; CGPA: 3.56

SKILLS SUMMARY

• Languages & Cloud: GoLang, Python, Java, C/C++, R, SQL, MATLAB, AWS (EC2, S3, Lambda), Azure, GCP

- Machine Learning & Data Science Tools: TensorFlow, Keras, PyTorch, scikit-learn, Pandas, NumPy, SciPy, Matplotlib
- Databases & Big Data Technologies: MySQL, PostgreSQL, Firebase, Apache Spark, Hadoop, Kafka
- Frameworks & Tools: Flask, Django, Spring Boot, KrakenD, NodeJS, ReactJS, Angular 8, Git, Docker, Jenkins, JIRA

EXPERIENCE

INDmoney

Software Development Engineer; Focus: Machine Learning

Gurgaon, India

May 2022 - August 2023

- Machine Learning Integration: Implemented machine learning algorithms for predictive analytics in financial services, enhancing investment insights and decision-making accuracy.
- Big Data Processing: Managed large-scale data processing using Kafka, PostgreSQL, and Docker, focusing on scalability and performance optimization for 1M+ users.

• Cyware Labs
Software Engineer

Bangalore, India

June 2021 - May 2022

- Driving Scalability and Performance: Orchestrated seamless transition from Monolithic-to-Microservice, resulting in 40% improvement in system scalability and managed **Docker images** in AWS for improved web server performance.
- Test Coverage: Spearheaded the creation of a robust Integration Testing Framework, integral to all services. This framework effectively forecasts end-to-end application flows, ensuring comprehensive testing.
- Automation Tools: Automated several routine processes, improving operational efficiency and reducing manual errors.

SQUPUS Solutions

Hyderabad, India

Machine Learning Intern

June 2020 - July 2020

• Development: Used Computer Vision Algorithms and Classified the GTSRB dataset to maintain higher accuracies.

• Data Analytics: Worked on improvement of 33% in the F1-score of cross-validation and Conducted comprehensive data analysis to identify trends and patterns, providing valuable insights for business strategies.

ACADEMIC PROJECTS

- Telugu Text Summarization using Deep Learning: Developed a model for summarizing Telugu text articles using NLP and deep learning techniques, employing transformers for accurate results. Pre-processing: Tokenization, Stemming.
- Advanced Statistical Models: Implemented Monte Carlo Simulation, Metropolis Hasting, Metropolis, Rejection Sampling, Monte Carlo Markov Chain on Axis Bank Dataset.

PUBLICATIONS

• Design and analysis of Generative Adversarial Networks for time series data augmentation in International Journal of All Research Education and Scientific Methods (IJARESM) Volume 9 Issue 11

RESEARCH PROJECTS

• Autonomous Drone Path Finder: We've captured terrain information using LIDAR sensors and developed a model on top of it which launches a group of drones for parallel search using Proximal Policy Optimization Algorithm. We were able to generate a virtual map with the best path to the destination. Tech: Unity 3D, C# [Guide: Dr. Himangshu Sarma]

ACCOMPLISHMENTS

- Teaching Assistant Applied Software Engineering Course, IIIT Sricity: Improved student satisfaction by clarifying complex software engineering concepts, with an emphasis on algorithmic and machine learning approaches.
- Coordinator Data Science Club, IIIT Sricity: Organized talks and workshops on machine learning and data science, enhancing peer learning and knowledge exchange.