

MOHIT ISRANI

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Sunnyvale, CA

PROFESSIONAL SUMMARY

Accomplished Senior Machine Learning Engineer with over 5 years of experience in designing and implementing scalable ML pipelines and optimizing model deployments. Proven track record in significantly reducing latency and enhancing system efficiency. Known for technical leadership, innovative problem-solving using cutting-edge technologies. Passionate about fostering continuous learning and driving impactful business outcome.

TECHNICAL SKILLS

Programming Tools Python • Kubernetes • Java • Spring Boot • Google Cloud • MSSQL • Docker • Drools • Elixir • Azure • Spark • Kafka • Google Analytics

Relevant Coursework Algorithm Analysis, Data Science & Mining, Distributed Systems, High Performance Computing, Database Management Systems, Statistical Methods in Research I and II, Computer Networks.

WORK EXPERIENCE

Senior Machine Learning Engineer | Walmart Global Tech., Sunnyvale, CA Jan 2022 – Present

Technologies: Python, Docker, Kubernetes, GCP (Google Vertex AI, Dataproc Serverless, Big Query, Compute Engine), CI/CD (Looper, Concord), Kafka, Flask, MongoDB, Redis, Milvus

Role Highlights:

- Designed and implemented scalable ML pipelines, resulting in reduction in model deployment latency.
- Onboarded several ML projects to Dataproc Serverless, enhancing efficiency and scalability.
- Developed and automated CI/CD pipelines for deploying Docker images, models, endpoints, and instances.
- Created a central repository for managing Docker images, improving containerized model development and deployment.
- Built an integrated chatbot using Retrieval-Augmented Generation (RAG) to help store associates follow process guides.
- Provided technical leadership and mentorship, fostering continuous learning and innovation.

Software Engineer III | Walmart Global Tech., Bentonville, AR Oct 2018 – Jan 2022

Technologies: Java, Spring Boot, React, Azure, Kubernetes, Databricks, CI/CD, Terraform IAC

Role Highlights:

- Enhanced CPLEX-based optimization, reducing processing time from 90 minutes to 8 minutes by orchestrating it on Kubernetes with Redis Queue to enable distributed serverless architecture.
- Deployed a highly efficient code using Drools rules engine which found conflicts between several pre-defined rules in the stateful Knowledge session.
- Designed and launched a feature store platform, accelerating data science projects by enabling users to transform raw data into ready-to-use machine learning features.
- Developed several JAVA, Python backend services as part of Microservice Architecture.
- Set up CI/CD pipelines for microservices deployed on Azure Web Services, Azure Kubernetes, WCNP
- Used terraform to deploy several Azure cloud resources as a code.

Research Assistant | Python, MATLAB, VASP(DFT), VESTA Apr 2016 – Oct 2018

- Automated high-throughput DFT problems, significantly reducing analysis time using open-source Python libraries.
- Produced comprehensive data visualizations with Python, improving data interpretation and research efficiency.

EDUCATION

Master of Science in Computers Science, GPA: 3.80 / 4 May 2018

Master of Science in Materials Science, GPA: 3.80 / 4 May 2018

University of Florida, Gainesville, Florida

Bachelor of Technology in Metallurgical and Materials Engineering, GPA: 7.92 / 10 May 2015

National Institute of Technology (VNIT), Nagpur, India

ACHIEVEMENTS / LEADERSHIP

Making the Difference Award Oct 2020

- Awarded on making significant contribution to the success of Walmart.

Certificate of Achievement in 'Dale Carnegie – Breakthrough to Success Corporate Course' Oct 2019

- Met the required standards for completion of course.

Certificate in Scientific Computing (Awarded by University of Florida) Aug 2017

- Successfully Completed the prescribed course of study.

Part of Institute for Pure and Applied Mathematics (IPAM), UCLA Workshop 2017 Oct 2017

- A week-long discussion on Optimal Control for Complex Energy Landscapes.