

Shashank Rangarajan

Portfolio: rshashank13.github.io

LinkedIn: linkedin.com/in/rshashank13

Email: shashank.rangarajan@usc.edu

Mobile: +1 213-284-6516

EDUCATION

- University of Southern California** California, USA
 - Master of Science - Computer Science (Artificial Intelligence); GPA: 4.0* *Aug 2022 - Present*
 - Computer Science Honors*
 - Courses: Machine Learning, Algorithms, Natural Language Processing, Deep Learning*
- Sri Jayachamarajendra College of Engineering** Karnataka, India
 - Bachelor of Engineering - Computer Science & Engineering; CGPA: 9.75* *Aug 2015 - May 2019*
 - University Rank #3*
 - Courses: Algorithms, Data Structures, Adv. Math, Operating Systems, Networks, Databases, Data Mining*

SKILLS SUMMARY

- Languages:** Python, Java, JavaScript, SQL
- ML Frameworks:** Pytorch, Tensorflow, Pyspark, Scikit, Weka, OpenAI
- MLOps:** Amazon - Sagemaker, Apache Airflow, Iterative.ai - Data Version Control (DVC), MLEM;
- DevOps:** Docker, HAProxy, GitLab Runner, Amazon Fargate
- Full-stack:** Flask, FastAPI, NodeJS, AWS - Lambda, API Gateway, React
- Cloud:** AWS (S3, EMR, ECS, StepFunctions), GCP (BigQuery)
- Database:** SQL - Amazon RDS, MySQL; NoSQL - Amazon DynamoDB, Couchbase, MongoDB

WORK EXPERIENCE

- Intel Corporation** California, USA
 - Machine Learning Intern (Full-time)* *May 2023 - Present*
 - Analytics and Intelligence team** - develops intelligent solutions for the Intel Engineering Compute division
 - Innovated a deep-learning based patch scheduler, cut machine blocking, and reduced wastage by 60%
 - Streamlined experimentation and rapid model iteration with MLOps pipeline, yielding superior performances
 - Leveraged LLM expertise, achieved a 30% performance boost by fine-tuning the RoBERTa model
- Amazon.com Inc.** Karnataka, India
 - Software Development Engineer (Full-time)* *Jun 2020 - Jul 2022*
 - Espresso team** - An internal MLOps platform built to accelerate experimentation and deployment of ML models
 - Designed ETL support and successfully onboarded 1 production use case
 - Re-architected legacy Machine Learning Training Platform, ensuring 100% uptime and performance while migrating 90+ production models.
 - Seamlessly transitioned production system to federated AWS accounts with 0-data loss and minimal availability impact.
 - Proactively addressed 100+ security risks, resolving Sev-2s across 10+ production pipelines owned by Espresso team.
- Motorola Mobility** Karnataka, India
 - Software Development Engineer (Full-time, Contractual)* *Sep 2019 - Jun 2020*
 - Over The Air updates (OTA) team** - Provides software upgrades for motorola devices world-wide
 - Successfully launched smart updates for Motorola phones, ensuring seamless updates for over 100K devices.
 - Designed and implemented the customer feedback feature into OTA app, enhancing user engagement and satisfaction.
 - Delivered a Game Recommender System for *Hello You* - a Motorola app, offering personalized experiences for users.
 - Led a team of 2 interns in creating a Log Analyzer for automatic call-drop detection using system logs, reducing ticket turn-around time by 30%.

RESEARCH EXPERIENCE

- University of Southern California** California, USA
 - Student Researcher (Part-time)* *Feb 2023 - Present*
 - Laboratory of Neuro Imaging (LONI), Keck School of Medicine (Feb 2023 - present): Leading a team of 5 engineers for NIH's Data Archive for Brain Initiative (DABI), spearheading the development of the analysis pipeline and multiple backend components.
 - Vilesov Group, Chemistry Department (Feb - May 2023): Utilized Deep Learning to analyze X-Ray Diffraction in *He* bubbles, synthesizing data and developing estimation models for radius, intensity, aspect-ratio, and rotation.

ACHIEVEMENTS AND LEADERSHIP

- Top 5 Submission (out of 200+) - Fraud Detection Challenge, Amazon Machine Learning University
- Winner - Philips Hackabout 2017, Philips Research India
- Mentored 3 interns - at Motorola and Amazon, and currently leading a team of 5 engineers at LONI