

Shashank Rangarajan

Portfolio: rshashank13.github.io

LinkedIn: linkedin.com/in/rshashank13

Email: shashank.rangarajan@usc.edu

Mobile: +1-213-284-6516

OBJECTIVE

Passionate computer science professional with a strong foundation in AI and machine learning. Seeking challenging opportunities in software engineering and machine learning research where I can leverage my skills and experience to contribute to innovative projects and drive impactful solutions.

EDUCATION

- University of Southern California** California, USA
• *Master of Science - Computer Science; GPA: 4.0/4.0* Aug 2022 - May 2024 (Exp.)
M.S. Honors | Courses: Machine Learning, Algorithms, Natural Language Processing, Deep Learning
- Sri Jayachamarajendra College of Engineering** Karnataka, India
• *Bachelor of Engineering - Computer Science; CGPA: 9.75/10* Aug 2015 - May 2019
University Rank 3 | Courses: Data Structures, Adv. Math, Operating Systems, Networks, Data Mining

SKILLS SUMMARY

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

WORK EXPERIENCE

- Intel Corporation** California, USA
• *Machine Learning Intern (Part-time - Aug'23 to Present; Full-time - May'23 to Aug'23)* May 2023 - Present
Team: Analytics and Intelligence - Drives optimization of private-cloud infrastructure for Intel world-wide
 - Innovated a deep-learning based patch scheduler, cut machine blocking, and reduced wastage by 60%
 - Streamlined experimentation with MLOps pipeline, yielding rapid iteration & one-step deployment.
 - 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
Team: Espresso - Delivers MLOps platform 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 SEV2s across 10+ production pipelines.
- Motorola Mobility** Karnataka, India
• *Software Development Engineer (Full-time, Contractual)* Sep 2019 - Jun 2020
Team: Over The Air updates (OTA) - Provides software upgrades for motorola devices world-wide
 - Launched smart updates for Motorola phones, ensuring seamless updates for over 100K devices.
 - Ideated 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 the 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 - A data science challenge organized by Philips Research India
- Mentored 3 interns - at Motorola and Amazon, and currently leading a team of 5 engineers at LONI