

# Shashank Rangarajan

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## 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
  - Teaching Assistant (Part-time)* *Sep 2023 - Present*
    - DSCI-250: Introduction to Data Science for the Fall 2023 offering.
  - 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