Sania Ravindra Edlabadkar

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Education

Master of Science(MS) in Computer Science **Start - Sept 2024**
University of California, San Diego

Bachelor of Engineering(BE) in Computer Engineering, **CGPA: 9.51/10 | Aug 2019 - July 2023**
Pune Institute of Computer Technology(Savitribai Phule Pune University)
Coursework: Software Engineering, Database Management Systems, System Programming, and Operating Systems, Distributed Systems, Data Science and Big Data Analytics, Web Technology, Artificial Intelligence, Cloud Computing, Machine Learning

Professional Experience

Goldman Sachs | Analyst **Hyderabad, India | July 2023 - July 2024**

- Engineered and implemented Blue-Green deployment (switching between identical environments during updates) for an 85% downtime reduction, and Canary routing for controlled software rollout, boosting reliability by 25% and performance metrics.
- Integrated dynamic content generation (FTL templates) into Bash scripts, reducing maintenance by 15% and improving adaptability for Conduit-based services.
- Optimized service routing with HAProxy, scaling infrastructure to handle a 34% increase in peak traffic with no performance degradation.
- Built a comprehensive monitoring and observability stack using Kibana, Prometheus, Grafana, Jaeger, and OpenTelemetry, providing real-time insights and reducing mean time to resolution by 20%.
- Implemented OpenId authentication and managed SSL certificates for secure web communication.

Stellar Blocks LLC | Software Developer **Aug 2022 - Aug 2023**

- Automated synthetic document generation using Python scripts, increasing data analysis efficiency by 20%.
- Designed and deployed a scalable payment gateway system (C#, .NET, MongoDB, Azure Cosmos DB) handling 10,000+ monthly transactions across multiple billing models.
- Developed a resume information extraction tool using pre-trained NLP models (LLaMA, BERT, RoBERTa) and Hugging Face Transformers for efficient parsing and categorization of resume data.

Goldman Sachs | Summer Analyst **Hyderabad, India | June 2022 - July 2022**

- Integrated Jaeger OpenTracing for end-to-end API tracking, reducing mean time to detection (MTTD) of performance bottlenecks by 30% and improving overall service reliability by 10%.

NICE Systems Ltd. | Project Development Intern **Pune, India | Nov 2021 - April 2022**

- Architected and led the development of a robust AWS-based file transfer system, providing seamless "FTP-like" access to cloud storage AWS File Transfer Family.
- Implemented a cost-effective alternative for the AWS File Transfer Family by mounting S3 buckets on EC2 instances.

Grroom (IIT Bombay - Startup) | Machine Learning Intern **Pune, India | June 2021 – Oct 2021**

- Curated a dataset of diverse clothing types by collecting and annotating various images using LabelImg.
- Fined-tuned a YOLOv4-Tiny model to recognize clothing types with an accuracy of 95% and conducted testing.
- Developed an outfit recommendation system using collaborative and content-based filtering, achieving a 78% improvement in user engagement.

Projects

Real Estate Price Prediction Model

- Curated a dataset for a price prediction model by scraping Zillow.com using Beautiful Soup and rapidapi.com APIs.
- Modeled the Price Prediction model using LSTM and machine learning models like Random Forest Algorithm, Decision Tree Algorithm, and Logistic Regression.

KYC Automation System

- Generated a synthetic dataset for Washington Driving Licenses using Python script.
- Tailored and tuned an ML model utilizing YOLOv4 (accuracy of 98%) and text recognition APIs.

Accurate Medicine Recognition and Audio Conversion for Handwritten Prescriptions

- Designed a system for recognizing medicine on a written prescription using YOLOv4(accuracy of 99%) for recognition of the body of the prescription and using CRNN(Convolutional Recurrent Neural network) for medicine recognition with a character error rate of 0.01%.
- Converted the read Medicine to Speech using GTTS - Google's Text-to-Speech API.

Stress and Depression Detection Model

- Modeled a Stress and Depression Detection model using HRV and Electrodermal activities as attributes (Machine Learning Models: Support Vector Machine Algorithm, Random Forest Classification Algorithm, Deep Neural Networks).

Skills

Languages: C++, Python, Java, C, HTML/CSS, JavaScript, SQL, C#

Technologies/Frameworks: ReactJS, Express, NodeJS, Mongoose, Java SpringBoot Framework, Docker, Kubernetes, Jaeger, OpenTelemetry, Prometheus, Grafana, Git, Selenium, .NET Framework, Terraform, Azure, Amazon Web Service(AWS), Bash, OpenID Connect, WebId-TLS, IaC based Deployment, Conduit-based Deployments, MongoDB, SQL, PyTorch, TensorFlow, YOLOv4, llama, Intellij, Transformers, LLMs, BERT, Artificial Intelligence and Machine Learning, Natural Language Processing, Computer Vision

Leadership / Extracurricular

- Technical Joint Secretary | Led a chapter of 300+ tech enthusiasts organizing workshops, hackathons, and mentorship programs.
- ROBOCON-PICT | member | Developed a machine-learning model to identify plant diseases.
- "Women Empowerment in Finance: A Catalyst for Economic Growth" | ISSN: 2278-8808.

Achievements

- Won the best paper award at ESCI-2024 for "Accurate Medicine Recognition and Audio Conversion for Handwritten Prescriptions".
- Won the best paper award at the Conference on Gender Equality and Women Empowerment, PVG for "Women Empowerment in Finance: A Catalyst for Economic Growth".