JAINUM SANGHAVI

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EDUCATION

Northeastern University	**Sep 2024 – May 2026**
Master of Science in Computer Science (GPA - 4.0/4.0)	*Boston, Massachusets*

University of Mumbai	**Sep 2018 – May 2022**
Bachelor of Technology in Information Technology (GPA - 8.21/10)	*Mumbai, India*

EXPERIENCE

Oracle Financial Services Software Ltd — **Jun 2022 – Jul 2024**

DevOps Developer — *Mumbai, Maharashra*

- Led a team of two to automate microservices deployments on OpenShift for various data centers, enhancing deployment efficiency and reliability by 40%.
- Enhanced a DevOps framework using Python and Shell scripting to automate deployment, monitoring, and failure handling for a major financial services company, reducing manual errors by 30%.
- Implemented OCI server rebuild automation and developed a Jenkins pipeline, resulting in a 65% reduction in server downtime and significantly improving system reliability.
- Utilized Ansible and Lightspeed Enterprise to streamline deployment tasks (CI/CD) for NAM and EMEA data centers, minimizing manual intervention and optimizing processes, leading to a 25% increase in deployment speed.
- Developed a machine learning POC to automate bug assignment based on description analysis. Conducted training sessions to explain the fundamentals of ML and the specifics of the project to the team, fostering a deeper understanding and improving team skills.

Aminu Wellness Pvt Ltd — **Dec 2021 – Apr 2022**

App Development Intern — *Mumbai, India*

- Developed a comprehensive mobile application using React Native and NoSQL for tracking and visualizing client data, significantly improving team efficiency in data management.
- Implemented advanced multilayer sorting algorithms and designed a robust database schema, enhancing the app's functionality and performance.
- Utilized Android Studio to visualize and ensure the application's seamless functionality across both iOS and Android platforms, providing a consistent user experience.

KJ Somaiya College of Engineering — **Aug 2019 - Jun 2020**

Machine Learning Intern — *Mumbai, India*

- Developed a Flask-based web application for sentiment analysis, integrating Python, machine learning models, and natural language processing (NLP) techniques to process and analyze text data.
- Explored and implemented several machine learning models across three diverse datasets and analyzed patterns.
- Built a high-performing sentiment analysis model using TensorFlow, leveraging advanced vectorization techniques to achieve 91% accuracy on test set by taking weighted average of outputs of different models.

PROJECTS

Comparative Analysis on Language Models | *Python, PyTorch* — **Dec 2024**

- Developed a Multi-layer Perceptron, Transformer, and State Space Model (S4) without off-the-shelf implementations.
- Conducted comprehensive evaluations using perplexity metrics across varied vocabulary sizes and complexities.
- Demonstrated that Transformers outperform in extensive vocabulary scenarios, while S4 provides competitive performance with a reduced parameter count.

Image Processor | *Java, Java Swing* — **Dec 2024**

- Engineered an Image Processor application in Java using MVC architecture, ensuring robust separation of concerns.
- Methodically scaled the application with features like compression, scaling, flipping, filtering, and linear transformations, preserving existing code integrity.
- Leveraged design patterns to enhance code readability and scalability, adhering to a stringent iterative release road-map.

SKILLS & COURSEWORK

Languages: Java, Python, C, C++,JavaScript, Shell, Groovy, YAML, Oracle SQL, NoSQL

Technologies & Frameworks: PyTorch, Tensorflow,Pandas, Numpy, OpenCV, Matplotlib, LightSpeed Enterprise, Ansible, JenKins, OCI, Oracle Linux, Flask, React, React Native, Django, NLP, Firebase

Certifications: Python for Data Science(Udemy), Deep Learning A-Z (Udemy)