ASHISH AMBADAS WALE

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EDUCATION

M.S. Computer Science

August 2023 - May 2025

Arizona State University, Tempe, AZ

3.56/4.0

Coursework: Natural Language Processing, Foundation of Algorithms, Data Visualization, Software Validation & Testing

B. Tech Information Technology

August 2016 - May 2020

University of Pune, Pune, India

3.1/4.0

Coursework: Data Structures and Algorithms, Database Management System, Operating Systems

TECHNICAL SKILLS

Programming: Java, Python, C, RESTful API, HTML, CSS, Javascript, Bootstrap

Frameworks: Springboot, Django, React, JUnit, TestNG, Pytest

Databases: MySQL, Oracle, PostgreSQL, MongoDB

Tools: Apache Maven, Apache Kafka, Git, Jenkins, Docker, Kubernetes, MS Excel

WORK EXPERIENCE

Software Engineer | eQ Technologic, Pune, India

December 2020 - June 2023

- Implemented **software architecture design patterns** in **core Java** tailored for enterprise application development enhancing **data model** creation by 30%.
- Engineered **CRUD** algorithms, devised **database** schemas, and designed **API** structures to facilitate the seamless migration of business **big data** entities from 60 connector plugins.
- Amplified data retrieval efficiency by 50% by integrating an Apache Ignite write-through caching mechanism.
- Set up **Jenkins CI/CD pipelines** for building **docker** images of the web application and rolling these images in the production environment.
- Developed data stream pipelines utilizing **Apache Kafka**, facilitating the smooth transition of entities between plugins and ensuring uninterrupted data flow.
- Deployed RESTful APIs within an MVC architecture leveraging Spring Boot and constructed datastores using JavaScript frameworks to dynamically populate UI elements with API data to facilitate seamless data exchange between frontend and backend systems, thus enhancing user interaction.
- Refactored legacy code into high-performance, reliable, well-documented form with end-to-end testing in JUnit.

Machine Learning Intern | Anubhooti Solutions, Pune, India

May 2018 – June 2018

- Conducted web scraping on articles from local newspapers' websites in **Python** to generate text datasets.
- Performed data visualization on extensive text datasets using NLTK to enhance comprehension of the task.
- Employed cleaning and reconfiguration techniques to transform text data into machine-understandable format.
- Implemented a text classification algorithm using support vector machines to extract human emotions from text.

PROJECTS

TestWeaver - Unit Test Case Generator

December 2023 - Present

- Developed web application using Django consisting of RESTful API to generate unit tests for a given code.
- Developed responsive ReactJS components and mapped them to respective APIs using requests from Python.
- Leveraged Cohere APIs to access generative pre-trained model and used it to generate the unit test cases.

Long range dependencies in Biomedical

August 2023 - December 2023

- Investigated the SciFive and In-BoXBART seq2seq ML classification models along with six biomedical datasets.
- Examined the **Self Information** methodology to generate condensed prompts to enhance text information capture.
- Applied the prompt compression technique with 3 datasets, resulting in a 5% improvement in testing accuracy.
- Presently surveying the **Prompt Engineering** method to publish research encompassing both reviewed methods.

Traffic Sign Recognition using small-scale CNN (Publication)

August 2019 - July 2020

- Collaborated to create an image classification model using convolutional and other layers in TensorFlow.
- Executed extensive analysis and literature review, resulting in the publication at ICCIP(2020).