SAMRUDHI BHOSALE

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EDUCATION

Queen Mary University of London, MSc Data Science and Artificial Intelligence　　　　**September 2023-24**
Grade Predicted: Distinction
Core Modules: Data Mining, Principles of Machine Learning, Neural Networks & Deep Learning, Big Data Processing, Cloud Computing.

Pune University, Computer Science　　　　**June 2015-19**
Grade Obtained: Distinction
Core Modules: Data Structures and Algorithms , Object Oriented Programming , Computer Architures, Database Management Systems , Computer Networks

WORK EXPERIENCE

ZS Associates, Pune, India　　　　**September 2021 – Jan 2023**
Software Engineer , *Full Time*
- Developed an end-to-end SaaS-based java library- "Adaptor Library" which provides an easy way for any workstream to integrate with third party connectors without investing time and effort to create new connectors.
- Implemented Agile software development with Scrum for quick software release using Jenkins and TeamCity.
- Engineered multiple adapters including a REST API utilising HTTP protocol, REST services, SFTP, and S3 adaptors.
- Utilised AWS services for project needs: IAM for user authentication and CloudWatch for log analysis and error resolution during build executions

Accenture, Bangalore, India　　　　**Aug 2019 – September 2021**
Application Development Analyst*, Full time*
- Leveraged AWS technologies such as S3, Lambda, EC2, and MariaDB to develop a Spring-based Geocode application.
- Achieved 95% test coverage across all Geocode modules, incorporating complex test cases and integration testing with JUnit .
- Employed Git for branch management and code uniformity across the project.
- Proficient in Linux environments, with a strong command of various Linux operating systems and utilities.
- Successfully deployed and managed applications in development and production environments using TeamCity, ensuring smooth transitions and resolving deployment errors efficiently

PROJECTS

- **Machine Learning Project, QMUL (Nov 2023 – Dec 2023):** Result: **Distinction (Achieved).**
  Developed two machine learning pipelines with MLEnd Yummy Data set: one using Scikit-learn achieving 89.42% and 66.07% Training & Testing Accuracies for 'Rice' or 'Chips' classification via RandomForestClassifier algorithm within dish images. Another classifying 'Vegetarian' or 'Non-Vegetarian' dish achieving 93.44% and 79.45% Training & Testing Accuracies using TF-IDF algorithm. Identified disparities and suggested strategies for model performance improvement.
- **Kitchen Wizard- A Python Flask Application, QMUL (Oct 2023 – Nov 2023):** Result: **Distinction (Achieved).**
  An innovative python application using Flask framework that suggests recipes instantly based on user-inputted ingredients, simulating a 'magic' experience by efficiently utilising available fridge items. Successfully hosted the application on GCP, ensuring global accessibility and seam- less user experience across various geographies. Implemented robust Hash authentication to enhance security, ensuring user data integrity and privacy in the application's ecosystem.
- **Content Based - Movie Recommender System (Oct 2023 – Nov 2023):**
  Developed a content-based movie recommender system using the TMDB 5000 dataset, implementing data cleaning, dimensionality reduction, and transformation of complex data structures for optimal data quality and analysis. Applied the bag of words model and cosine similarity to analyze movie relationships, enhancing recommendation accuracy by focusing on genres, overviews, keywords, actors, and directors. Encapsulated the recommendation model into two .pkl files for the data frame and similarity matrix, enabling seamless integration with a web interface for user-friendly access.
- **Adaptor Library , ZS Associates(Dec 2021 - Sept 2022):**
  The library was created in a generic way so that it can be consumed by any product line to fetch and insert data from third party connectors.The intent of this library was to support S3, SFTP, REST API's(HTTP,HTTPS), RDBMS, Postgres and Adobe Experience Manager connectors
- **Geocode, Accenture (Oct 2019 - Apr 2021) :**
  Developed custom APIs that can be integrated into the users' applications which will provide us the latitude and longitude when an address is provided to it. Configured and deployed the service on the cloud for scalability and cost-effectiveness

AWARDS AND CERTIFICATIONS

- AWS Certified Cloud Practitioner
- Data Statistics (Linkedin Learning)
- Python Bible (Udemy)

TECHNICAL SKILLS AND LANGUAGES

- Working knowledge of Python: Pandas, NumPy, SciPy, Scikit-learn, PyTorch, TensorFlow; Machine Learning (ML) ; Core Java , JVM, Spring , JDBC; SQL , PostgreSQL , MongoDB , NoSQL ;AWS , GCP , Azure ;Hadoop , Spark, MapReduce; Git , JIRA , TeamCity
- Languages: **English** (native proficiency), **Hindi** (native proficiency), and **Marathi** (native proficiency)