SAMRUDHI BHOSALE

London, UK | [Linkedin](#) | (+44) 7482942212 | bhosalesamruddhi3535@gmail.com

EDUCATION

Queen Mary University of London, MSc Big Data Science   **Sep 2023- Sep 2024**
Grade Predicted: Distinction.
Core Modules: Data Mining, Principles of Machine Learning, Neural Networks & Deep Learning, Big Data Processing, Cloud Computing.

Pune University, Computer Science   **Jun 2015- Jun 2019**
Grade Obtained: Distinction.
Core Modules: Data Structures and Algorithms , Object Oriented Programming , Computer Archictures, Database Management Systems , Computer Networks.

WORK EXPERIENCE

ZS Associates, Pune, India   **Sep 2021-Jan 2023**
Software Engineer , *Full Time*
- Implemented 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.
- Enabled Agile software development with Scrum for quick software release using Jenkins and TeamCity.
- Engineered multiple adaptors 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 – Sep 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 Linux operating systems and utilities.
- Managed application deployments from development to production using TeamCity, ensuring smooth transitions and swift resolution of any hitches.

PROJECTS

- **Machine Learning Project, QMUL (Nov 2023 – Dec 2023):** Result: **Distinction (Achieved).**
    - Designed 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 achieved 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).**
    - Built a user-friendly Python app (powered by Flask) that instantly suggests recipes based on the fridge ingredients, like a virtual "magic pantry".
    - Deployed the app on Google Cloud Platform for seamless user experience around the world.
    - Streamlined robust Hash authentication to keep the data safe and private, because delicious recipes shouldn't come at the cost of security.
- **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 analyse 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 - Sep 2022):**
    - Created a reusable library supporting S3, SFTP, REST APIs, RDBMS, Postgres, and Adobe Experience Manager adaptors, allowing product lines to retrieve and store data seamlessly.
- **Geocode, Accenture (Oct 2019 - Apr 2021) :**
    - Crafted custom APIs that transform addresses into precise latitude and longitude, ready to integrate into any app. Engineered scalability and cost-efficiency by configuring and hosting the service on the cloud.

AWARDS AND CERTIFICATIONS

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

TECHNICAL SKILLS AND LANGUAGES

- Working knowledge of Python: Pandas, NumPy,, Scikit-learn, PyTorch, TensorFlow; 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)