

Avdhoot Patil

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EDUCATION

Stony Brook University

Master of Science in Data Science

Relevant Coursework: Data analysis, Probability, Data Science fundamentals, Data management, Statistical Computing, Big data systems, Big data analysis, Deep Learning, Machine Learning, Smart energy in the Information Age.

Stony Brook, NY

Aug 2023 – May 2025

Xavier Institute of Engineering, University of Mumbai

Bachelor of Engineering in Information Technology

Mumbai, India

Jul 2018 – Jun 2021

SKILLS

Languages and Frameworks: Python, R, Java, GO, Javascript, Tensorflow, SQL, Terraform, Shell Scripting, scikit-learn (for Python), caret (for R), Flask, Django, pytest, unittest, Jenkins, Travis CI, GitLab CI, Scrum, Kanban, Apache Hadoop, Apache Spark, NLTK, SpaCy

Tools and Platforms: GCP AWS, Azure, Sagemaker, Kubernetes, Docker, Jira, GitHub, GitLab, Elastic Search, Kibana, Power BI, Excel, Prometheus, Grafana, REST, Redis, Pub-Sub, Nginx, MySQL, MongoDB, PostgreSQL, Linux

Certification: Google Cloud Platform Certified Associate Cloud Engineer [[Credential link \(GCP ACE\)](#)]

EXPERIENCE

Software Engineer | NeoSoft Technologies, Mumbai, India

Jun 2021 - Jun 2023

Project 1: Internal Talent Acquisition Analytics platform

- Architected and developed a scalable Talent Acquisition Analytics Platform using Docker and Kubernetes. This reduced the time-to-fill for open positions by 25%, significantly enhancing recruitment efficiency and agility.
- Leveraged microservices for analytics using Python and Elasticsearch, improving candidate quality by 20%, boosting retention rates.

Project 2: LabCorp Annotation Product

- Engineered a **model training and deployment framework in Python**, enabling seamless model training, deployment, and live servicing on **AWS Lambda and API Gateway**, contributing to **30% faster model deployment**
- Led a codebase refactoring, yielding a 20% speed boost and 30% complexity reduction. Introduced configuration files, resulting in 25% fewer bugs and streamlined development.

Project 3: Monibag

- Managed migration to **GCP**, integrating Java Microservices with **GCP Cloud Run**. Hosted microservices using **Cloud Storage, API Gateway**, and **load balancers**, improving performance and reducing deployment time by **30%**.
- Implemented infrastructure standardization with **Terraform**, **reducing** provisioning time by 40% and simplifying **microservice scalability**.

Software Engineering intern | Tech Mahindra, Mumbai, India

Jan 2021 - Apr 2021

- Played a key role in software development project, encompassing the design and implementation of backend system utilizing Java, SQL, PL/SQL, Hibernate, MVC, Spring Boot, and Microservices. Additionally, spearheaded the creation of a comprehensive database for a banking application through meticulous PL/SQL scripting.

MENTORSHIP

- **Led training programs** for new team members at Neosoft, providing in-depth **guidance on GCP, DevOps practices, Git**, and various workflows. This streamlined training approach contributed to a 30% reduction in onboarding time, fostering a more agile and efficient team.
- Presented engaging guest lectures on **DevOps methodologies** to an audience of 70+ students at Xavier Institute of Engineering. Provided personalized guidance for final year projects, resulting in a 25% increase in project quality.

ACADEMIC PROJECTS

Malware Detection of Portable Executable files

- Researched, curated, and evaluated datasets for malware detection, selecting the most relevant sources.
- Restructured and **fine-tuned a high-performing CNN model** using **Tensorflow and Keras**, achieving an impressive **95% accuracy** in **multi-class malware detection**. Mitigated class imbalances through strategic class weighting, yielding a 20% improvement in multi-class detection of the malwares and with 30% higher accuracy.

Exploring Credit Fraud Detection Strategies using R

- Led a project addressing challenges of unbalanced datasets, particularly in fraud credit card transactions.
- Implemented effective oversampling techniques in R, significantly improving model performance. Achieved a top score of 0.977 with XGBOOST, while Random Forest and Logistic Regression also performed well.