

Archisha Chandel

Mumbai - India

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Academia

- **B.E. in Computer Engineering** | University of Mumbai | GPA: 7.96/10.0 2020
- **Data Science Masters Program** | GreyAtom School of Data Science 2021

Experience

Project Lead

Ky. Col. Prof. Dr. Edward Roy Krishnan | 2023

- Pitched a research concept with its strategic project plan to innovate **AI-based Depression Detection System**
- Directing a 6-member team in crafting a module leveraging user data from Spotify, Instagram and Twitter
- Designing an Android application to get user data, record feedback to give suggestions that uplift the mood

Data Science Consultant

AVPL International | 2023

- Led a team of 5 professionals to develop **soil fertility identification** using airborne hyperspectral images
- Proposed a hybrid machine learning model that improved accuracy by **21.09%** on test data over the baseline
- Applied Agile methodology, utilizing **JIRA** for project management and **Confluence** for documentation

Data Scientist

Fractal Analytics | 2021-22

- Researched and implemented **GANs** for synthetic data generation with average performance gap of 6% to overcome data scarcity & complexity such that inter-data and intra-feature relationship is maintained
- Determining the success of campaigns - Addressed model decay due to **concept drift** using PSI score
- Product promotion optimization - Formulated PPG and used **demand forecasting** to achieve business goals

AI Research Scientist

Tessact Pvt Ltd | 2021

- TV content compliance - Annotated media using object detection algorithm with **ResNet50** as the backbone
- Enhanced baseline model accuracy by **12%** using feature analysis and data processing techniques
- Utilized **AWS S3** for data management; **SageMaker** for annotation, training and deployment of the model

Machine Learning Engineer

Tvarit GmbH | 2019-20

- Developed algorithms to reduce scrap in manufacturing industry and integrated them with the platform
- Built business value dashboards using Grafana to visualize results obtained during the development
- Customer segmentation and price optimization - Led a project on prediction of ambient conditions in a retail store to maximize profits - Bagged **first place** in the competition by European Data Incubator(EDI)

Volunteer Work

AI - Machine Learning Engineer Trainer

AVPL International | 2022-23

- Acquired Trainer certification from a **government flagship program** - NSDC, instructing 80-student cohort
- Imparted knowledge of machine learning, teamwork, work management, and solved real-world use cases

Club President

Toastmasters International | 2022

- Helped the club achieve Distinguished title and **won International Speech Contest** at the Club & Area level
- Completed all 5 levels of Presentation Mastery pathway with **20+ public speeches** as a motivational speaker

Machine Learning Mentor

Upwork | 2021

- Mentored 3 individuals for a machine learning course and helped them to implement projects
- Built foundations of **multilayer perceptron** construction and solve **predictive maintenance** using **LSTM**

Open-Source Contributor

Mozilla | 2020

- Achieved position in **top 3 contributors** for PRESC project during the contribution period
- Exhaustive research, experimentation and report development on **model suitability** & evaluation techniques

AI Mentor for Uplift Project

GirlScript Foundation | 2020

- **Mentored 15 students** working on the machine learning project 'Credit Card Fraud Detection'
- **Delivered lectures** on implementing deep learning and neural networks algorithms for projects

Skills

Administrative

Management and planning, Communication, Public speaking

Programming

Python, Spark, Git, Docker, Tensorflow, Keras, Scikit-Learn, AWS Sage Maker, Pandas

Hobbies

Fine arts, Graphic designing, Reading fiction novels, Baking