

FARHANUR RAHIM ANSARI

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[LinkedIn](#) | [Github](#) | [Portfolio](#)

EDUCATION

Northeastern University, Boston, MA Sept 2019 – Present
Master of Science in Data Science (CGPA: 3.9/4.0) Expected graduation: Dec 2021
Related courses: Algorithms, Machine Learning, Deep Learning, Data Mining, Causal Modeling, Reinforcement Learning

PDPM Indian Institute of Information Technology Design and Manufacturing, Jabalpur, India Aug 2014 – May 2018
Bachelor of Technology in Computer Science and Engineering
Related courses: Probability and Statistics, Linear Algebra, Data Structures, Algorithms, Database Design and Management

TECHNICAL KNOWLEDGE

Programming:	Python, R, Java, C/C++
Database:	Oracle Database, MySQL, SQLite, PL/SQL, NoSQL, HDFS, HBase, MongoDB
Data Cleaning:	Pandas, Numpy, OpenCV, PCA, TSNE, BeautifulSoup, Tidyverse, Dplyr
Data Visualization:	Tableau, PowerBI, Matplotlib, Seaborn, Plotly, PIL, mpl_toolkits, Ggplot2
Machine Learning:	Scikit-learn, scipy, NLTK, Spacy, Tensorflow, Keras, PyTorch, Pyro, Caret, mlr, bnlearn
Technologies:	AWS, Microsoft Excel, Git, Slack, Jira, Tortoise SVN, Hadoop, OpenAI gym

WORK EXPERIENCE

Artificial Intelligence Intern (Computer Vision) | Sparrow, New York, NY Jan 2021 - Present

- Applied 3D Human Pose Estimation on Monocular RGB images and videos for real-time in-the-wild **Golf** analysis.
- Extensively researched and documented 15+ recent publications in the domain with analysis of 20+ critical factors.
- Implemented a 3DHPE pipeline using HRNet for 2D keypoints prediction and GAST-Net for 3D pose reconstruction.

Teaching Assistant | DS3000: Foundations of Data Science, Northeastern University Summer 2020 - Fall 2020

- Evaluated and mentored 150+ students with their doubts and group projects, holding office hours, and grading tests.

Associate Consultant | Oracle Financial Services Software Ltd., Bangalore, India July 2018 – July 2019

- Redesigned and modernized functionalities and screens of **FCIS J2EE** application to serve HSBC's requirement.
- Coordinated with the onsite team as lead **SPOC** and promptly delivered, packaged objects of Sprint 10 User Stories
- Mastered the **Agile** driven Software Development Process with **Scrum** and **Sprint** methodologies
- Operated extensively on **Oracle Database** by executing complicated queries for 250+ features with 2m+ records.

Software Development Intern | Fujitsu, Numazu-shi, Shizuoka, Japan June 2017 – July 2017

- Pursued the Research and Development of a migration tool for converting **Java Applet** code to **HTML** and **JS**.

PROJECTS

Quantitative Trading with Deep Reinforcement Learning – Portfolio Management Sept 2020 – Dec 2020

- Maximized the total returns of the end-user through optimal asset allocation on a portfolio of 5 non-correlated stocks.
- Applied Deep Deterministic Policy Gradient (**DDPG**) algorithm by running the agent on the **OpenAI gym** environment.
- Outperformed both DJIA and RNN-LSTM models with ~27.9% better cumulative returns for out-of-sample data.

StackOverflow Assistant, Coursera – Natural Language Processing June 2020 – July 2020

- Designed an interactive conversational chatbot that assists with a search on StackOverflow and holds a dialogue.
- Achieved an accuracy of 90% for multiclass classification of 10 tags using **logistic regression** with **l2 regularization**.
- Deployed and Integrated the virtual AI bot on Telegram messenger and hosted it on the Amazon **AWS cloud server**.

Image-based Product Recommendation System, Kaggle - Unsupervised Machine Learning Jan 2020 – April 2020

- Processed the e-commerce dataset of 45k high-resolution product images belonging to 143 article types.
- Applied dimensionality reduction with 96% components reduction, **clustering**, and **cosine similarity** techniques.
- Generated real-time product recommendations using **REST API** in python on top of the **Flask framework**.

Intraday Stock Market Price Prediction – Supervised Machine Learning Sept 2019 – Dec 2019

- Forecasted the intraday closing prices by solving a time-series regression problem on a dataset of 180k+ records.
- Feature Engineered 22 new technical indicators and implemented 5 statistical models for 3 different time intervals.
- Accomplished an RMSE score of 0.12 with **XGBoost**, beating **Random Forest** and **Support Vector Machine** models

ACHIEVEMENTS

- Represented India in the 29th Ship for World Youth Leaders Program, organized by the Government of Japan.