Atharva Niranjan Joshi

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SUMMARY

I am a Data Science Master's Student at the Queen Mary University of London. I have also done a Post Graduate Diploma in Data Science. I am looking for a placement year or a full-time job in Data Science, software or all related fields like Cloud, Big Data and Artificial Intelligence starting from September 2021. I wish to bring a positive change to the world using the power of data. I am originally from India and I love to read and play cricket and badminton.

EDUCATION

Master of Science (MSc.), Big Data Science with Industrial Experience   Sep 2020 – Sep 2022
Queen Mary University of London   Percentage: 93.12 (Distinction)
(Natural Language Processing, Applied Statistics, Big Data Processing, Data Mining, Machine Learning, Deep Learning and Computer Vision, Neural Networks and NLP, Cloud Computing)

Post Graduate Diploma, Data Science   Apr 2019 – Feb 2021
IMS ProSchool, India   Grade: A

Bachelor of Engineering (B.E.), Information Technology   Jul 2014 – Jul 2018
Savitribai Phule Pune University   Percentage: 63.61 (2:1)

12th (Equivalent to A – Level), Computer Science   Feb 2013 – Feb 2014
Maharashtra State Board, India   Percentage: 71.69

10th (Equivalent to GCSE)   Mar 2011 – Mar 2012
Maharashtra State Board, India   Percentage: 84.55

WORK EXPERIENCE

Systems Engineer, Infosys Limited, India   Sep 2018 – Sep 2020
- I developed applications in Android and iOS using Xamarin.Forms framework based on C# and XAML using DevOps on Microsoft Visual Studio.
- I also used Azure Active Directory for authentication and Azure APIs for data retrieval and storage.
- I played an important role in the development cycle by implementing complex features, coordinating with my teammates, tracking the progress of each use case development and bug fixes through the Azure DevOps Portal.
- I developed Pilot projects and also presented Proof of Concepts to the clients through Microsoft Teams.
- I showed the working of the apps through an emulator and also gave a walkthrough of the code to the client.
- I was nominated and awarded with a Certificate of Appreciation for my performance in the company.

CERTIFICATIONS

- Infosys Certified Xamarin Developer
- Infosys Certified Python Programmer and Python Associate
- Mathematics for Machine Learning: Specialisation by Imperial College London - Coursera

SKILLS

Data Science: Python, SQL, Familiarity with Keras
Programming: C#, ADO .Net, ASP .Net Web API, Python, Familiarity with Flask
Mobile Application Development: Xamarin.Forms
Languages: English (Fluent, C1(IELTS)), Marathi (Fluent, Mother Tongue), Hindi (Intermediate)

PROJECTS

Neural Machine Translation and Neural Dialogue Systems (April 2021)

This was developed as part of the Neural Networks and NLP Module at QMUL. I developed a version of seq2seq model NMT model in Python which I then enriched with attention, used a pre trained BERT model as a classifier model. I also implemented a series of dialogue act taggers and created an end - to -end dialogue system. The whole project was developed using Keras framework.

Student Management System on Cloud (March 2021)

This was developed as a part of the Cloud Computing module at QMUL. I used Azure Cosmos DB to create a database in Cassandra. Then I used the Cosmos DB Cassandra driver in Python and Flask to create APIs. Then I developed a simple GUI in HTML to consume those APIs. I also used a Holiday External API and developed a hash-based authentication using the HashLib library in Python. Finally, I hosted that on Azure Web App Service and also used its features like HTTPS connection and Role Based Access Policies.

Usage of Generative Adversarial Nets (February 2021)

I studied the research paper for Generative Adversarial nets and then implemented the whole model by defining each layer and all the parameters using Python and Keras framework from scratch. I used the MNIST dataset and trained the model using Google Colab infrastructure. The output was studied and compared with the research paper. This was done for the Deep Learning and Computer Vision module at QMUL.

Diabetes Readmission Predictor (February 2021)

This was developed as part of the Data Tools and Project module for Term 3 of PGDDS at IMS ProSchool. I used the Azure ML Studio for doing the basic processing like null value imputations and also try various models on this dataset to compare their performances. Finally, I also developed the same model using the best performing model from the Azure experiments and used a pickle file to store and then use Flask to develop a web app with HTML as front end.

Sentiment Analysis of Tweets (January 2019-February 2019)

This was developed as part of the Advanced Machine Learning module for Term 2 of PGDDS at IMS ProSchool. I extracted tweets using the Tweepy Library by specifying specific keywords and consolidated them to make a domain specific dataset. Then I preprocessed the data by removing hashtags, mentions, etc. I also analysed data using word clouds and then applied various algorithms like Logistic Regression, Decision Tree and Random Forest using TF – IDF Vectoriser.

Survival Prediction on RMS Titanic Dataset (September 2019-October 2019)

This was developed as part of the Business Analytics module for Term 2 of PGDDS at IMS ProSchool. I explored the Titanic dataset and applied various exploratory data analysis techniques like univariate, bivariate and multivariate analysis, null value imputation, etc. and then finally experimented with various algorithm like Logistic Regression, Random Forest, Decision tree, etc. and also performed hyperparameter tuning and determined the best model for the prediction of survival of each person based on their characteristics.

PUBLICATIONS

E-Health Monitoring and Detection using Wireless Sensor Networks 2018 - *International Engineering Research Journal*

EXTRA CURRICULAR ACTIVITIES

- Played badminton and cricket at the inter departmental tournament during my undergraduation. Qualified the cricket quarter finals in 2016 and 2017.
- Volunteer at the Information Technology Student Association. Organised and hosted multiple hackathons, technical quizzes and TV Shows Trivia.