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 currently working as an AI Intern at CHRE using Computer Vision to improve Oral Cancer diagnosis. I am looking for a full-time job in fields like Data Science, Software, Cloud, Big Data and Artificial Intelligence starting from September 2022. 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: 86.31 (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

AI Consulting Intern, Centre for Health Research and Education, UK — Jun 2021 – Aug 2022

- I research and apply various Image classification models using Python and Deep Learning frameworks like PyTorch and TensorFlow on existing as well as newly created datasets to gain insights for oral cancer research.
- I also coordinate with various medical institutions for obtaining data, managing and storing on cloud platforms like Amazon Web Services and Azure.
- I liaison with technology companies and moderate the development of models as well as coordinate on technical issues with the concerned teams.

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, the working of apps through emulator and walkthrough of codes to the clients through Microsoft Teams.
- 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 (Linear Algebra, Multivariate Calculus and PCA(Pending))

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 (Apr 2021) (Neural Networks and NLP, QMUL)
I developed a version of seq2seq model NMT model in Python using Keras 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.

Student Management System on Cloud (Mar 2021) (Cloud Computing, 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 and consumed then in a simple HTML page. 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 (Feb 2021) (Deep Learning and Computer Vision, QMUL)
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.

Diabetes Readmission Predictor (Feb 2021) (Term 3, PGDDS, 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 (Jan 2019-Feb 2019) (Term 2, PGDDS, 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 (Sept 2019-Oct 2019) (Term 1, PGDDS, 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.