AUISHIK PYNE

Machine Learning Researcher

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Dhaka, Bangladesh

EXPERIENCE

Machine Learning Research Intern

REVE Systems

April 2022 - Present Dhaka, Bangladesh

- Currently working in Bangla TTS (Text to Speech) with the machine learning team. Developed a Bangla Text normalizer tool for offline uses. Learned Mocha a unit testing tool for JS. Developed a Python Flask API for Bangla text normalizer. Worked on clipped and non-clipped audio signal detection. Worked on Speaker Diarization for audio speech signal. Currently working on Speaker Identification from audio speech data. Learned Dockerization of flask API. Audio speech signal, spectrogram analysis using Python and Praat tool.
- Technologies used : HTML, CSS, JavaScript, Mocha, Python, Flask, Postman, Jupyter Notebook, Docker.

Intern

SELISE rockin' software

May 2019 - June 2019 Dhaka, Bangladesh

- Developed an online quiz platform. HTML, CSS, Javascript, Bootstrap are used as as front-end tools. PHP, Ajax, MySQL are used as back-end tools. Learned GIT, SCRUM, BALSAMIC, SDLC. Admin can set test questions by selecting level of education, subject, type etc. By registering a student can participate in a test for a given time. Then users will be able to compare his performance with other peers.

KEY PROJECTS

Real State Price Prediction

- Exploratory Data Analysis is done using numpy and pandas. Data cleaning, feature engineering, outlier removal etc. are also done to the dataset. Best Parameters and scores are found out by using various ml regression algorithms. A web application is also created using flask server which can provide the predicted output according to analyzing multiple input features.
- Project link : https://github.com/auishikpyne/Real-State-Price-Prediction

Flight Price Prediction

- By analyzing multiple features of our dataset best features have been selected to predict the flight price. Random forest regressor is used to train the model. A web app is created using flask which is deployed using heroku.
- Project link : https://flightprice-prediction-api.herokuapp.com/

SKILLS

Python, C, C++, Git, Latex, Docker
Numpy, Pandas, Matplotlib, MySQL
Scikit-Learn, Seaborn, Flask, Tensorflow
MS Excel, Power BI, Power Query, Tableau
Machine Learning, Deep Learning

PUBLICATION

PERFORMANCE COMPARISON OF COVID-19 MORTALITY PREDICTION USING MULTIPLE SUPERVISED MACHINE LEARNING ALGORITHMS

(*2022 IEEE Second International Conference on Advances in Electrical, Computing, Communications and Sustainable Technologies (ICAECT 2022)*)

Bhilai, India

- Multiple supervised Machine learning algorithms like Logistic Regression, Dicision Tree, K Nearest Neighbors, Support Vector Machine, Naive Bayes are used to predict the possible outcome of a affected patient.
- Performance comparison of multiple algorithms is done using patient's location, age, travel history, symptoms etc.
- By selecting the best features using GridsearchCV hyperparameter tuning we have achieved 95% accuracy and 89% F1 score.
- Project link : https://github.com/auishikpyne/COVID-19-Mortality-Prediction

EDUCATION

B.Sc. in Electrical & Computer Engineering

Rajshahi University of Engineering & Technology (RUET)

Jan 2016 - Jan 2021 Rajshahi, Bangladesh

Higher Secondary Certificate (HSC)

Dhaka Residential Model College (DRMC)

July 2013-May 2015 Dhaka, Bangladesh

Secondary School Certificate (SSC)

Thakurgaon Govt. Boys' High School

Jan 2011 - Feb 2013 Thakurgaon, Bangladesh

EXTRA CURRICULAR ACTIVITIES

- Organized and volunteered for "Technocracy 2018" organized by ECE Dept, RUET.
- Participated in 'Gyanjam 2017' Organised by CSE Dept, RUET .
- Participated in project showcasing " Mecceleration 2017" Organised By IUT.
- Served as Vice-President for Barisal Divisional Association of RUET.