Indraneil Paul

Computer Science Dual-Degree | IIIT Hyderabad

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NBH 251, IIIT Hyderabad, Gachibowli, Hyderabad

Education

2011	Hiranandani Foundation School, Thane	ICSE 90.2%
2013	PACE Junior Science College, Thane	HSC 89.1%
2017	Bachelors of Technology in Computer Science, IIIT Hyderabad	CGPA 6.96
2019	Masters by Research, IIIT Hyderabad	CGPA 8.1

Student Experience

August 2017 – May 2017 | **Google Summer of Code , Green Navigation, Netherlands**

- Predicted fuel consumption in electric vehicles given intended route and associated terrain
- Tested and compared various machine learning approaches
- Used bayesian optimization for optimal hyperparameter selection

TensorFlow | Pandas | BayesOpt | Python

Ongoing – June 2016 | **Research Assistant , Language Technologies Research Center, IIIT Hyderabad**

- Working under professor Ponnurangam Kumaraguru
- Characterizing verified users of social media platforms
- Used network and content based features for a discriminative model

NetworkX | Graph-Tool | XGBoost | Neo4j | NLTK | Twitter API | Python | PoweRLaw | R

Ongoing – July 2018 | **Research Assistant , Machine Learning Lab, IIIT Hyderabad**

- Working under professor Sujit Gujar
- Devloping matching algorithms on dynamic graphs with location based constraints
- Exploring applications in resource exchanges and ride sharing

ParamILS | MATLAB | CVXOpt | Python | C++

Projects

Kaggle Two-Sigma Financial Modelling Challenge — January 2017 - March 2017

Implemented a pipeline to compare the efficacy of various time series forecasting approaches in accurately predicting the future value of various financial instruments

TensorFlow | Statsmodels | Python

Author Context — January 2016 - May 2016

Created a system that interprets a large number of Computer Science research papers from the DBLP archives and using the available set of tags corresponding to each paper, tries to predict a field in which a certain author is likely to contribute in the near-future

Scikit-Learn | LibSVM | LMDB | Python

NBA Match Prediction — July 2015 - December 2015

Developed a model that could predict, with competitive accuracy, the result of a basketball match between any two NBA teams factoring in player form, team form, player synergies and team chemistry and past head-to-head results

MLPack | C++

News Article Autosummarization — January 2017 - May 2017

Implemented an hierarchical LSTM based sequence to sequence model along with topic modelling to automatically generate a grammatically coherent gist of a news article

Keras | Python

Nash Equilibrium Tool — June 2016 - January 2017

Implemented the simplex based Lemke-Howson method to find the Mixed Strategy Nash Equilibrium of a two-player non-zero sum game

MATLAB | LinProg

Glare Removal — May 2015 - November 2015

Implemented a novel approach to detect glare in images and remove them using inpainting techniques extrapolating colours from surrounding non-glare regions

MATLAB | C++