Indraneil Paul

Computer Science Dual-Degree | IIIT Hyderabad

+91 8879073176
github.com/ineil77
androneil54@gmail.com
NBH 251, IIIT Hyderabad, Gachibowli, Hyderabad

Education

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

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 to uncover what best predicts verification
- Used network and content based features for a discriminative model reporting feature importances

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 using penalty based mechanism design

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++