Indraneil Paul

Email Github Scholar LinkedIn Website

Education

09/22 - Pres. **ELLIS PhD Candidate in Informatics**, TU Darmstadt
07/17 - 07/19 **Masters by Research in Computer Science**, IIIT Hyderabad CGPA 8.52
08/13 - 05/17 **Bachelors of Technology in Computer Science**, IIIT Hyderabad CGPA 6.85

Work Experience

04/20 - 08/22 **Applied Scientist , Amazon Inc. (Advertising), Bangalore**
- Created text, image and multi-modal models for improving EU ad moderation automation by 28%
- Researched multi-modal, multi-lingual and multi-task pre-training objectives for ad catalog tagging
- Devised sample-efficient training methods for ViT models using self-labelling and sub-task distillation

HuggingFace Transformers | PyTorch | Python | CUDA C++ | TensorRT | AWS SageMaker

07/19 - 03/20 **Software Development Engineer , Amazon Inc. (Logistics), Hyderabad**
- Implemented a planner enabling merchants to rank options and schedule last-mile package drop-offs
- Oversaw database tuning, JVM optimizations and message queue setup for event ingestion service

Spring | METIS | Java | AWS SNS | AWS SQS | AWS DynamoDB

06/17 - 08/19 **Research Assistant , IIIT-H Language Technologies Research Center, Hyderabad**
- Employed temporal activity, network and Tweet-based features to characterize verified users on Twitter
- Curated a **dataset** of 235K+ verified Twitter users, containing 79M+ edges and 494M+ Tweets

Graph-Tool | FastAI | Neo4j | AllenNLP | Twitter API | PoweRLaw | Python | R

06/18 - 07/19 **Research Assistant , IIIT-H Machine Learning Lab, Hyderabad**
- Researched constraint-aware two-sided matching algorithms on dynamic bipartite graphs
- Explored non-manipulable preference elicitation for ride sharing drivers

ParamILS | CVXOpt | MATLAB | Python | C++

05/17 - 07/17 **Google Summer of Code , Green Navigation, Hamburg**
- Implemented LSTM based EV charge prediction and reduced absolute forecasting error by 39%
- Productionized Bayesian Optimization service toward optimal hyperparameter selection for models

TensorFlow | Pandas | BayesOpt | Python

Summer Schools

09/21 Gaussian Process and Uncertainty Quantification Summer School (GPSS)
07/21 European Summer School in Logic, Language and Information (ESSLLI)

Publications

Sub-Task Imputation via Self-Labelling to Train Image Moderation Models on Sparse Noisy Data

CIKM 2022, Atlanta — Abstract | Slides | PDF
Indraneil Paul, Sumit Negi

Prompting Language Models for Few-Shot Adversarial Text Localization in E-Commerce Ads

ICONIP 2022, New Delhi — To Appear
Indraneil Paul, Gaurav Rajput, Pooja A

Insights into, Analyses and Prediction of Verified Users on Twitter

Masters Thesis, IIIT Hyderabad — Abstract | Slides | PDF
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What sets Verified Users apart? Insights, Analysis and Prediction of Verified Users on Twitter

WebSci 2019, Boston — Abstract | Slides | PDF
Indraneil Paul, Abhinav Khattar, Shaan Chopra, Ponnurangam Kumaraguru, Manish Gupta

Elites Tweet? Characterizing the Twitter Verified User Network

LSGDA Worskshop, ICDE 2019, Macau — Abstract | Slides | PDF
Indraneil Paul, Abhinav Khattar, Shaan Chopra, Ponnurangam Kumaraguru, Manish Gupta