




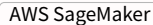






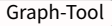


















INDRANEIL PAUL

 Email  Github  Scholar  LinkedIn  Website

WORK EXPERIENCE

- 04/20 - Pres.** Applied Scientist , AMAZON 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 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

EDUCATION

- 07/17 - 07/19 Masters by Research, IIIT Hyderabad CGPA 8.52
- 08/13 - 05/17 Bachelors of Technology in Computer Science, IIIT Hyderabad CGPA 6.85







SUMMER SCHOOLS

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

REFERENCES

- Amazon Sumit Negi, Principal Science Manager  Email
- Microsoft Manish Gupta, Thesis Co-Advisor  Email
- IIIT Hyd Ponnurangam Kumaraguru, Thesis Advisor  Email

PUBLICATIONS

- SAMPLE-EFFICIENT TRAINING OF VISION TRANSFORMERS FOR ADVERSARIAL AD IMAGE DETECTION
KDD 2022, Washington DC UNDER REVIEW
Indraneil Paul, Sumit Negi
- PROMPTING LANGUAGE MODELS FOR FEW-SHOT ADVERSARIAL TEXT LOCALIZATION IN E-COMMERCE ADS
KDD 2022, Washington DC UNDER REVIEW
Indraneil Paul, Gaurav Rajput, Pooja A
- INSIGHTS INTO, ANALYSES AND PREDICTION OF VERIFIED USERS ON TWITTER
Masters Thesis, IIIT Hyderabad  ABSTRACT  PDF
Indraneil Paul
- WHAT SETS VERIFIED USERS APART? INSIGHTS, ANALYSIS AND PREDICTION OF VERIFIED USERS ON TWITTER
WebSci 2019, Boston  ABSTRACT  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  PDF
Indraneil Paul, Abhinav Khattar, Shaan Chopra, Ponnurangam Kumaraguru, Manish Gupta