Somesh Singh

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EXPERIENCE

COMMERCEIQ, BANGALORE | Data Science Intern
July 2021 – Current
- Working on advertisement optimization on e-commerce platforms such as Amazon and Walmart.

MIDAS LABS, IIIT DELHI | Research Intern
May 2020 – Current | Delhi, India

- Research: Gradient estimation based white-box **adversarial attack**s and black box attacks on Automatic Essay Scoring (AES) systems with customized policies using Tensorflow and Pytorch.
- Worked on generating data free adversaries, investigating dataset bias and worked on post-hoc protection mechanisms against adversarial attacks.
- **Supervised by** Prof. Rajiv Ratn Shah (Dept. of CSE & HCD, IIIT Delhi).

MYSMARTPRICE WEB TECHNOLOGY | Data Analyst and Software Development Intern
May 2020 – July 2020 | Hyderabad, India
- Built Knowledge-based active and passive **recommendation systems** using Bayesian and Non-Bayesian methods using Java, Python, Django and RESTful APIs.
- Built and deployed overall **Social Media Crawling** tools utilizing Docker container using Java, Python and Selenium integrated with cloud and parallel computing.

PROJECTS

DECEPTICONLP | Open Source Project, Lead Developer
March 2020 - Present
- DecepticoNLP is a Python based PyTorch Wrapper for robustness monitoring and adversarial debugging of NLP models powered by Travis CI.
- DecepticoNLP has implementations of various character & word level adversarial perturbations for text.
  `https://github.com/SforAiDl/decepticonlp`

FLAIREDDIT | Machine Learning Webapp
April 2020
- Built a complete text classification web-app using Python and PyTorch and deployed it on Heroku which scrapes data from Reddit, pre processes and classifies its flair tag.
  URL:`https://github.com/someshsingh22/FlaiReddit-MIDAS`

TEAMELEVEN | College Project: BITS F464
- NRR (Net Run Rate) Gaussian Noise Regularised Auto-Encoders for Player Embeddings in Cricket using PyTorch.
- We introduce a regularised autoencoder-based approach to generate on the fly player/team embeddings,using player's form to predict the the loss's margin in terms of Net Run Rate (NRR)
- **URL**:`https://github.com/someshsingh22/TeamEleven`

EDUCATION

BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI
B.E. (Hons.) in Computer Science
Expected July 2022 | Goa, India
Cum. GPA: 7.86 / 10

PUBLICATIONS

SEMEVAL-2020
BPGC at SemEval-2020 Task 11: Propaganda Detection in News Articles with Multi-Granularity Knowledge Sharing and Linguistic Features based Ensemble Learning

SKILLS

PROGRAMMING
3+ years:
Python • C/C++ • Java
0+ years:
Matlab • R •

TECHNOLOGY
Git/Github • AWS • Linux
Tensorflow/PyTorch • Django/Flask •
Numpy/Scikit-Learn/Pandas

COURSEWORK

GRADUATE
Meta Learning

UNDERGRADUATE
Machine Learning *(Teaching Assistant)*
Natural Language Processing *(Teaching Assistant)*
Information Retrieval *(Teaching Assistant)*
Computer Programming *(Teaching Assistant)*
Data Structures & Algorithms
Artificial Intelligence
Foundations of Data Science
Database Systems
Operating System
Object Oriented Programming

SOCIETIES

Events Head, PoR, CTE
Core member, SAiDL
Head of Duties, LRG
Core member, AXON