PRATIK GEOFFREY SAXENA

Education

University of Petroleum and Energy Studies — Dehradun, IN
B.Tech in Computer Science and Engineering; CGPA: 7.68 — *Jun. 2018 – Current*

Technical Skills

Languages: C/C++, Java, Python, SAS, R, MySQL, SQLite
Business Intelligence: Tableau, Microsoft Power BI, Microsoft Excel
Data Science: Statistical modeling and inference, Pipeline construction, ETL, Data Wrangling
Machine Learning: TensorFlow, Sklearn, SciPy, Pandas, NumPy, Matplotlib, Scrapy
Developer Tools: Git, VS Code, Visual Studio, PyCharm, Anaconda

Experience

STEM-Away — Santa Clara, CA
Artificial Intelligence Intern — *Jun. 2020 - Jul. 2020*

- Leveraged **Natural Language Processing** techniques to deploy a 7 layered Neural Network.
- Utilized **Python** & **Scrapy** built pipeline to automate scraping & pre-processing from over 120 websites.
- Devised an **automatic web scraper** top pull and analyze data from over **8000** forum posts.
- Constructed a **pipeline** of over **30** custom data science utilities in Python, to facilitate data cleaning, visualization, modeling, cross-validation, hyper-parameter tuning, and model ensembling.

Government of Uttarakhand — Dehradun, IN
Data Analyst & Machine Learning Intern — *May. 2020 - Jun. 2020*

- **Spearheaded** the development of a registry that stored sensitive data of over **17,000** villages.
- Over **55 Insights** pivotal to deploy a skill registry initiative were **extracted** using data cleaning methods.
- A **classification** model was delivered, that was further deployed over an app within a span of **60** days.

Projects

Criminalization of Politics | *C Programming, k-means clustering, Tableau*

- Addressed **unawareness** among general public by **analyzing** criminal data of over 300 politicians.
- Formulated a **visualization** that colored attributes of criminals and politicians using Tableau.
- Visualized GitHub data to show **collaboration** over the span of 150 days.

Prediction of COVID Using CNN | *Python, Machine & Deep Learning*

- Designed a **classification model** with 97.5% for the prediction of COVID using CT Scans.

Dog Breed Classifier | *Convolutional Neural Networks, Transfer Learning, & TensorFlow*

- **Leveraged** Transfer Learning to create a **50 layered multinomial classifier** Neural Network.
- Trained the Neural Network to distinguish between **150** different dog breeds, with **20,580** images.

Positions of Responsibility

Joint Secretary — Dehradun, IN
Computer Society of India — *Jun. 2020 - Present*

- **Counsel** the functioning of finance, logistics, event management & public relations.
- **Mentor** and **Supervise** 18 other decision makers to ensure smooth function of the organization.

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