Pratik Geoffrey Saxena

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A budding Analyst & ML Engineer

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, MySQL, SQLite, TensorFlow.js
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
Developer Tools: Git, VS Code, Visual Studio, PyCharm, Anaconda
Others: MS Office (Complete tool set), Scrapy, Streamlit, Figma

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

Doodle Classification Neural Net | *Python, TensorFlow, TensorFlow.js, & p5.js*

- Constructed **Image Classifier** that classifies **345** different doodled items with about 89% accuracy.
- Trained model on **1,72,50,000** doodles with TensorFlow on Google Colaboratory.
- Converted **trained** model and **deployed** over the browser with **TensorFlow.js** and **p5.js** libraries.

Analysis on 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 Used Car Price | *Python, SAS, & SQL*

- Wrangled, Analysed data-set with **1.75 million** records and **25** different features.
- Analysed each of the **25 features** to determine the impact on the output variable.
- Utilized **SQL** and **PROC SQL** queries to subset and clean data.
- Formulated **regression models** to predict the value of the used cars.

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.