Chitral Puthran

Data Science | Machine Learning | Python

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Career Summary

A proficient **Python Programmer**, specializing in **Machine Learning, Data Visualization, and Data Preprocessing**, with internship experience at **Nokia Bell Labs** in Data Science, and an **active learner**. A **Graduate Research Assistant** in Machine Learning and Big Data, with a **Master of Science Degree in Computer Science** from the University of New Haven, 2018. A **Google Analytics Certified Individual**, 2019.

Work Experience

Data Science and Machine Learning Intern   06/2018 - 08/2018
Nokia Bell Labs

- Assisted the research led by Dr. Abdol Saleh at Bell Labs Consulting, by programming **Jupyter Notebooks** for **data extraction** using **APIs** in **Python** with learning instructions and reproducible code snippets.
- Successfully collected time-series data from 1960 to 2017, for **140 macroeconomic indicators** for **195 countries** from **The World Bank** and **International Labour Organization**, and **256 macroeconomic indicators for 40 countries** from **Organisation for Economic Co-operation and Development** through **APIs using Python**, aggregated in **2 million+ data points**.
- **Program Files and Report.**

Graduate Research Assistant   09/2017 - 12/2018
University of New Haven

- Developed a **Tweepy Streaming Engine** to collect live tweets about natural disaster situations and implemented a **context filtering model** to classify tweet with relevant, valuable information for disaster relief organizations and first responders.
- **Program Files and Report.**

Software Engineer   08/2019 - Present
Tata Consultancy Services

Relevant Projects

Drive Curve | ML Application

- Trained a **Regression Model**, on the **Automobile Dataset** from the **UCI Machine Repository** with the help of **Scikit-learn**, tuned the hyper-parameters for **R2 score**, with **GridSearchCV**, to predict the **price of the car** based on the features, in **Python**
- Developed a **Web Application**, with an **easy to use UI** with multiple **dropdown list to enter feature values**, for the regression model, with the help of **Flask** and deployed the **Web Application to Heroku**.
- **Live link to the Web Application.**
- **View it on GitHub.**

Wine Glass | ML Application

- Trained a **Classifier** on the **Wine Quality Dataset** from the **UCI Machine Learning Repository**, to classify the **wine sample as good or bad**, with the help of **Scikit-learn**, **Pandas** and treated imbalanced dataset with the help of **SMOTE** from **imblearn** in **Python**.
- Designed and deployed a **Web Application,** with user-friendly **range sliders to insert features values**, for the trained Machine Learning model **to classify** the wine sample given by the **end user**, with the help of **Git, Flask, Bootstrap,** and **Heroku**.
- **Live link to the Web Application.**
- **View it on GitHub.**

Skills

- Python
- NumPy, Pandas
- Matplotlib, Seaborn, Plotly
- Scikit-learn, Keras, SHAP, lime
- Machine Learning, Scipy
- Data Visualization, Tableau
- SQL, MySQL
- SpaCy, NLTK
- Object-Oriented Programming (OOP) with Python.
- Git, Google Analytics

Certifications

- **Google Analytics Individual Qualification - 2019**
- **Microsoft Technology Associate - 2017**

Scholarship

- Experiential Graduate Assistantship Program (EGAP) with 75% tuition fee assistance.

Completed Courses

- **Machine Learning by Stanford University on Coursera**
- **Applied Machine Learning in Python by University of Michigan on Coursera**
- **Machine Learning A-Z™ : Hands-On Python & R in Data Science**
- **Statistics for Business Analytics A-Z™**
- **Tableau 10 A-Z: Hands-On Tableau Training For Data Science**
- **Interactive Python Dashboards with Plotly and Dash**
- **Python for Data Science Tips, Tricks, & Techniques**
- **Building Deep Learning Applications with Keras 2.0**
- **Advanced SQL for Data Scientists**
- **Amazon Web Services Machine Learning Essential Training**

Education

Master of Science in Computer Science   2017 - 2018

University of New Haven

Coursework: Python Scripting, Java Programming, Distributed Databases, Advanced Python in Data Science, Artificial Intelligence, Machine Learning, Web Database Application Development, Database Systems

Bachelor of Engineering in Computer Engineering   2013 - 2017

University of Mumbai

Relevant Courses: Distributed Database. Structured Programming Approach, Object-Oriented Programming Methodology, Data Structures, Database Management System, Analysis of Algorithms