Chitral Puthran

Data Scientist | Google Analytics Certified

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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, 2019. A **Google Analytics Certified Individual**, 2019.

Work Experience

Graduate Research Assistant   2017-09 - Present

University of New Haven

- Examined various online media streaming business models, aggregated data about user ratings for movies from heterogeneous sources and forecasted ratings based on a prediction model, in a **Recommender System**, with the help of **Python 3.6 and Apache Spark 2.2.0**.
- 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.**

Data Science and Machine Learning Intern   2018-06 - 2018-08

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.**

Relevant Projects

Amazon Alexa Reviews

Independent Work

- Implemented a customized Random Forest and Gradient Boosting Classifier using **scikit-learn** in **Python**.
- Cleaned, analyzed and summarized insights product reviews with the help of **NumPy**, **Pandas** and curated graphs in **Matplotlib** and **seaborn**.
- **GitHub repository.**

Skills

- Python
- NumPy, Pandas
- Matplotlib, Seaborn, Plotly
- Scikit-learn, Keras, SHAP, lime
- Machine Learning
- Data Visualization, Data Cleaning
- 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**
- **Machine Learning A-Z™: Hands-On Python & R in Data Science**
- **Statistics for Business Analytics A-Z™**
- **Learning Git and GitHub**
- **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**

Mobile Description Web Application

Independent Work

- Extracted and Transformed mobile device descriptions such as model, CPU, dimensions, release date with **Python** using **FonoApi**, **NumPy**, **Pandas**, and **MySQL**
- Developed a web application with **Java Server Pages**, **Bootstrap** and **Apache Tomcat**.
- **GitHub repository.**

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

Online Conference

AWS Innovate: Build AI-Enabled Applications and Train Models   2019-03-05

Amazon Web Services (AWS)

Attended Tracks:
- Get Started with Amazon SageMaker: Build, Train, and Deploy Machine Learning Models in the Cloud.
- Remove Your Biggest Challenge to Getting Started with ML: Using Amazon SageMaker Ground Truth to Label Data at 70% Less Cost
- Integrate Amazon.com's ML Techniques for Customer Recommendations and Forecasting Workflows into Your Applications