PRATEEK CHAND

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ABOUT

I am a recent high school graduate eager to pursue a career in computer science. I am seeking an opportunity to apply my passion for using machine learning and data visualization to understand the underlying aspects of pressing problems.

MACHINE LEARNING PROJECTS

RENT PREDICTION MODEL

- Developed and tested a linear regression model that can predict rents at three different locations using 14 different parameters
- Used the scikit-learn library to train the model and to check the accuracy using different metrics
- Utilized Pandas library for data cleaning
- Visualized the predictions in Jupyter Notebook using Matplotlib and Seaborn libraries

TITANIC DATASET IMPLEMENTATION

- Used Tensorflow to predict the probability of survival in the Titanic Crash using different parameters of the Titanic dataset
- Learned to work with categorical data and create feature columns
- Understood the basics of how the input functions work
- Exploratory Data Analysis in Jupyter Notebook using Matplotlib library

ROAD CRASHES AND SMARTPHONE USAGE CORRELATION MODEL

- Created a linear regression model and used p test and correlation coefficient to test the relationship between crashes and smartphone usage
- Used the scikit-learn library to train the model and the scipy library for statistical analysis
- Utilized Pandas and Numpy for data cleaning and reshaping
- Exploratory Data Analysis in Jupyter Notebook using Matplotlib and Seaborn libraries

EARLY CHILD MARRIAGE IN NEPAL

- Explored the trends, impacts, and causes of Early Child Marriage in Nepal using multi-variable analysis
- Used the scipy library to find a relationship between potential causes for Early Child Marriage
- Utilized Pandas for data cleaning
- Visualized the trends and findings in Jupyter Notebook using Matplotlib and Seaborn libraries
- Prepared a report based on the findings and published the findings as a Medium Blog.

PROJECTS

TIME SERIES ANALYSIS

- Learned to train and test the Autoregressive integrated moving average (ARIMA) model and Vector Autoregressive (VAR) model for time series analysis for future predictions
- Utilized Granger Causality Test to understand multi-variable relationships
- Worked with Non-Stationary Time Series and learned to use differencing and decomposition to make a time series stationary
- Implemented different statistical tests to check the stationarity of a series
- Used different implementations to fill the missing values in a dataset for an accurate representation of the time series
- Utilized Pandas library for data cleaning
- Visualized the predictions in Jupyter Notebook using Matplotlib library

SKILLS

- Python
- Jupyter Notebook
- Basics of MongoDB
- Basics of Tensorflow
- Basics of Linux Commands and Git
- Basics of Postman and API handling in Python
- Understanding of nested JSON, Microsoft Excel, and .csv files
- Sentinel Application Platform and the basics of ArcGIS for Geo Mapping
- Basics of Lightroom

EDUCATION

2020 - 2022 **ST. XAVIER'S COLLEGE, LOYOLA CAMPUS, MAITIGHAR**

A Level
Physics (A*), Chemistry(a), Mathematics(A*), Computer Science (B), English General Paper (a)

2020 **ARUNIMA SECONDARY SCHOOL** **GPA 4.0**

Secondary Education Examination

HOBBIES

- Casual Photography
- Writing Blogs
- Swimming, Outdoor Running, and Playing Football
- Tech Enthusiast
- Volunteering
- Watching Anime
- Astronomy