Chirag A Pallan

Aspiring Data Scientist

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SUMMARY

Data Scientist with strong math background and good experience using predictive modeling, data processing, and data mining algorithms to solve challenging business problems. Involved in Python open source community and passionate about solving data driven business problems.

TECHNICAL SKILLS

Tools/Languages
Python, SQL, Tableau
Database
MySQL, PostgreSQL
Python Library
Numpy, Pnadas, NLTK, scikit-learn, TensorFlow, Spacy, statsmodels , seaborn

KEY SKILLS

Data analysis • Time Series analysis • Data Visualization • Data mining • Linear regression • Logistic regression • Neural Network • Machine Learning • Deep learning • Web-scraping • Natural language processing • Data Visualization techniques • Statistical Analysis Methodologies

CERTIFICATIONS

- Python Programming Master class - Udemy
- Data Analysis with Pandas and Python - Udemy
- Machine Learning A-Z: Hands-On Python & R In Data Science - Udemy
- Python for Time Series Data Analysis - Udemy
- Tableau 2020 A-Z: Hands-On Tableau Training for Data Science - Udemy
- The Complete SQL Bootcamp 2021: Go from Zero to Hero - Udemy

PROFESSIONAL EXPERIENCE

Project officer - Data science

Jan '22 - Present

IC&SR, IIT Madras

Chennai, IN

Data Analysis & Data Mining
- Coordinated with data collection team of 4 people for extracting and **loading data** from multiple data sources using **SQL**
- **Conceiving** 1-2 algorithms to label data collected by various sensors using **statistical** and **semi supervise** machine learning approach
- Building Statistical & **predictive data modeling** to enhance ML model performance,
- **Examining** experiment design to **avoid noise** in collected data as well as optimizing sensor position to collect exact information into data

Data Processing & Transformation
- Developing end to end **data pipeline** which accept data from 2 data sources, cleaning and preparation of data

Strategy Formulation
- Experimental design for **optimization** of sensor positions on data accumulation vehicles
- **Synchronization** of various sensor based on timestamp to ensure continuity in collected data
- Founded 2 statistical methods and selected correct **evaluation matrix** to start analyzing various sensor data

Report Generation & Troubleshooting
- Generating **reports every 7 days,** presenting it to stakeholders and updating the resources with new data
- Resolving issues pertaining to dashboards and reporting database environment and overseeing the 100% **quality assurance** of the **imported data**

Mathematics lecturer for IIT JEE

May '19 - Jan '22

The Schram Academy & Self Employed

Chennai, IN

- Conducted 2 **lectures** per day on various topics in **mathematic**s and aptitude
- Examined students 4 times a month using **tutorials**, produce **evaluation summaries** and provide feedback to the senior management team

KEY DATA SCIENCE PROJECTS

- **Domain: Finance | Tech Stack: Python | LOAN APPROVAL ANALYSIS**
  - **Objective**: To identify patterns which indicate if a client has difficulty paying their installments which may be used for taking actions such as denying the loan or reducing the amount of loan.
  - **Key Achievement**: By extensive data analysis **found pattern** in which customers may have difficulty in paying loan
- **Domain: Retail | Tech Stack: Python | CUSTOMER CHURN CLASSIFICATION**
  - **Objective**: A company wanted to know whether customer will

- Statistics with python specialization - Coursera
- Neural Networks and Deep Learning - Coursera

ADDITIONAL INFORMATION

- Member of The aeronautical society of India, New Delhi

Interests

- Solving coading problems on online platform like leetcode, hackerrank
- Extensive discussion on statistical results and model interpretation
- Exploring emerging technologies and its application

churn or not
- **Solution**: Multiple ML models e.g. **SVM, KNN, Decision Trees** and **Random Forest** to predict a customer will churn or not.
- **Key Achievement**: Got **accuracy** of each of the classifier to be **0.830857 , 0.857714, 0.867429, 0.857714** respectively
- **Domain : Entertainment | Tech Stack : SQL | IMDB MOVIE DATA ANALYSIS**
  - **Objective**: To build an **insight about movies released** in past and **derive recommendation** to produce new movies
  - **Key Achievements**: Found **down trend** in movies released in past years, most popular genre is **drama**.

EDUCATION

Executive Post Graduate Programme in Data Science
Jan '22 - Present

IIIT Bangalore
Bengaluru, IN

- **Course Modules:**
  - Data Analysis using SQL and Python| Introduction to Python | Introduction to Machine Learning and Linear Regression | Deep learning
  - Time Series Analysis | Telecom Churn Case Study | IMDB Movie data analysis

Master of Science by Research
Jan '14 - Jul '19

IIT Madras
Chennai, IN

- Secured 8.6 CGPA
- Thesis title: A Computer-Based Simulation Model for the Fatigue Damage Assessment of Deep Water Marine Riser
- Research Paper:
  - Pallan, Chirag A., and Rajiv Sharma. "A computer based simulation model for the fatigue damage assessment of deep water marine riser." Ocean Systems Engineering

B.Tech Aeronautical Engineering
Jun '05 - Sep '13

The Aeronautical Society of India
Chennai, IN

- Secured 60%
- Project under taken: Simulation and analysis of super-sonic flow over double diamond wedge placed at 10 degree angle of attack using CFD tools Ansys - Fluent.