SHUBHAM SRIVASTAVA

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Solution-driven hardworking graduate with an academic background and experience in Data Analytics & Business Intelligence. Motivated to learn and apply learned competencies in a real-time setting. Seeking a work environment that supports professional and personal growth.

SKILLS

- **Programming Languages:** Python, R, SQL, C++.
- **Data Science Technical Skills:** Machine Learning, Predictive Analytics, Data Analysis, Deep Learning, NLP, Recommendation System, Statistical Data Analysis, Computational Statistics.
- **Data Visualization Tools:** Tableau and Power BI (Learning).

- **Other Technical Skills:** Git & GitHub, WordPress, Data Structures, Microsoft Excel, HTML & CSS.
- **Management Skills:** Project and Risk Management, IT Strategy and Knowledge Management, IT Service Management, Analytical Thinking, and Problem-Solving.

EDUCATION

- **Masters in IT And IT Management**   **FEB 2020 – DEC 2021**
  Major: Data Management and Analytics
  University of Sydney, **Sydney**
  WAM: 68
- **Bachelors in CSE**   **JULY 2013 – MAY 2017**
  Major: Mainframe technology
  University of Petroleum & Energy Studies - India
  GPA:67

WORK HISTORY

1. **TUTOR – THE UNIVERSITY OF SYDNEY**   **JULY 2022 – CURRENT**
   - Tutoring over 100 students in one semester in an **IT Service Management** class at the Postgraduate level.
   - Course including teaching **ITIL Lifecycle, Internal & External Analysis, Portfolio Management, Change management, Service Operations & IT Governance.**
   - Help the lecturer to design quizzes and assignments and mark the submission.

2. **BUSINESS ANALYST INTERN** – **ASHITA CONSULTANTS**   **AUG 2018- AUG 2019**
   - **Performed in-depth research & requirement analysis** to understand business requirements and helped 10+ organizations **to increase their revenue and gain a competitive advantage in their respective market segment.**
   - Identified organizational challenges, and **performed risk and gap analysis** through SWOT and PESTLE techniques.
   - Investigated and compiled data using **data visualization**, working with 2 senior business analysts to infer meaningful insights that **improved organizational processes for several companies through the ITIL life cycle**.
   - Contributed to presentation preparation and Communicated strategies and plans to the team, stakeholders, and client in the meetings.
   - **Predicted trends and Developed dashboards**, reports, and visualizations to support client & Stakeholders' Objectives **and received 100% positive feedback for participation in documentation, visualization, reporting, and strategy formulation.**

3. **SOFTWARE DEVELOPER INTERN – SMART SOFTWARE TESTING SOLUTIONS**   **OCT 2017 – JAN 2018**
   - Worked on **the front-end part using HTML & CSS and coordinated with project teams** on development timelines.
   - Determined business and functional requirements for business needs and directly communicated with the clients to understand their requirements.

4. **COLLEGE INTERN – WIPRO LIMITED**   **JUNE 2016 – JULY 2016**
   - Worked on **IGRS Web Portal**, Networked, and built a presence with peers to facilitate the testing of the website.
   - **Built reports and collaborated with a professional team to solve client portal issues.**
   - **Found bugs & enhancements in the project & assisted in the documentation.**

5. **RESEARCH WORK**
   a. A study on consumer behavior towards mobile phones   **SEPT 2019**
   - This paper aims to analyze the factors that influence the consumer to purchase mobile phones.
   - The research paper can be accessed at http://ijsrd.com/Article.php?manuscript=IJSRDV7I60163

   b. Evaluating classification techniques on different categories of Dataset   **MAY 2018**
   - This paper addresses the question by investigating the relation & the variability that may exist between the data set and classifier bias using statistical analysis & the Machine Learning Algorithm.
   - The research paper can be accessed at http://ijsrd.com/Article.php?manuscript=IJSRDV6I20166

HEALTH CARE PORTAL (ONGOING)

- The purpose of **this end-to-end project is to create a healthcare portal that will help users to predict their associated diseases and recommend suggestions related to the diseases** such as Parkinson's, breast cancer, malaria, covid, etc. **based on the ML & DL models.**

REGRESSION PROJECTS

1. CAR PRICE PREDICTION FEB 2022

- The focus of this end-to-end project is to predict the selling price of a Car based on the different ML algorithms.
- We have used **the random forest regressor** to predict the selling prices since this is a regression problem and that random forest uses multiple decision trees and has shown good results for my model with **a mean accuracy value of cross-validation is 86%.**
- **Deployed on Heroku:** https://carsellingpricepredictions2022.herokuapp.com/

2. AI GUIDED FINANCIAL TRADING (CAPSTONE) NOV 2021

- In this project, we anticipated studying the economic patterns by digging deep into the historical data and market reactions using technical indicators & trading strategies to predict the future direction of the markets.
- For this project, we have tried to **improve the performance by Hyperparameter optimization and also by optimizing the trading strategies** using **the Back-testing strategy** to enhance profitability.
- We have implemented a hybrid model **of stack layers of CNN & LSTM with attention** to the prediction of Forex Prices **and achieved an RMSE score of 81%.**

SENTIMENT ANALYSIS ON TWITTER – NLP APRIL 2021

- For the project, I have used NLTK's Twitter dataset. Used the combination of **word embedding and Lexicon embedding as input for the Bi-LSTM model** to generate a better prediction of positive and negative sentiments.
- Evaluated the performance of the sentiment analysis system, and got the Accuracy **of 91.82% and an F1-measure is 92.39%.**

CLASSIFICATION PROJECTS

1. RAIN FORECASTING MARCH 2022

- **Performed Data analysis and applied ML model** to predict whether it will rain the next day or not. This model is based on the Rain Prediction in Australia dataset.
- **The logistic Regression model accuracy score is 0.84 and the model shows no sign of Underfitting or Overfitting.** This means the model generalizes well for unseen data.
- **Deployed on Heroku:** https://australiarainforecasting2022.herokuapp.com/

2. COTTON DISEASE PREDICTION FEB 2022

- The purpose of this **project is to classify the cotton leaf diseases using image classification** concepts based on Machine and Deep Learning Models.
- Used techniques are **CNN, and LSTM** to solve the problem and achieve **an f1 score of 73% and 86% precision**.

3. ANALYSIS OF WISCONSIN BREAST CANCER APRIL 2020

- The focus of this project is to correctly predict the target class and improve it by applying cross-validation and checking the effectiveness of attributes using different ML algorithms such as Naïve Bayes, SVM, Random Forest, etc.
- **The mean accuracy value of cross-validation is 96.24% and the Random Forest model accuracy is 98.24%.** It shows Random Forest is slightly overfitted but when training data will more it will be a generalized model.

DATA VISUALISATION PROJECTS: TABLEAU

- **Churn Analysis**: Created a Dashboard to help businesses understand customers' behavior towards Bank policies.
- **Analyzed the US Cybercrime Attack** dataset and created a dashboard and multiple visualizations to solve the different problem statements such as Severity of attack, Intensity, etc.

MANAGEMENT PROJECTS

1. NOKIA REVAMP NOV 2021

- In this Project, we assessed Nokia's situation back in the 1990s till its downfall. We had identified the reasons for their downfall & other external factors.
- We prepared reports and proposed a solution based on **Project management, IT Service Management & IT Strategies & Values concepts** that were completely based on the stakeholder's needs and requirements.

For More projects & their details visit my portfolio: **https://shubhamportfolio0211.netlify.app/** & **https://github.com/shubhamsrivastava951** (GitHub)

CERTIFICATIONS

- Udemy: Python for Data Science and ML
- Udemy: Python
- Udemy: Statistics for Data Science & BA
- LinkedIn: Building DL applications using Kera's 2.0
- Udemy: Tableau Data Analyst Certification
- LinkedIn Tableau & SQL essentials
- SQL: Data Reporting and Analysis
- Edwisor.com: Data Science in Python and R