ABDUL WAHID SHAIK

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SUMMARY

- Results-oriented software engineer with 3 years of experience in Python, web development, SQL database, and machine learning.
- Experienced in utilizing the Flask and Power BI frameworks, as well as the NumPy, Pandas, and Scikit-learn libraries for data analysis and visualization.
- Master's degree holder in Artificial Intelligence (AI) with a focus on machine learning, NLP, deep learning, and recommender systems, achieving first-class honors.

EXPERIENCE

SOFTWARE ENGINEER | VALLEY INFOSYSTEMS, INDIA | JANUARY 2019 – JULY 2021

- Developed and implemented an AI-based fraud detection system for an E-Commerce website's payment gateway with daily traffic of Millions of requests, utilizing machine learning algorithms to analyze transaction patterns, user behavior, and other relevant data.
- Utilized **Bootstrap 4.0** framework to create a series of dashboards, unfolding the timeline/trajectory of payment requests from a high-level overview to a granular level.
- Usage of dashboards helped reduce fraudulent payments by **28%** and subsequently evolved into flagging **suspicious accounts**.
- Utilized the **Flask** framework to implement server-side logic and back-end functionalities, ensuring smooth integration with the front-end.
- Developed and implemented **HTML** and **CSS** code to create visually appealing and user-friendly web interfaces.
- Trained and evaluated ML models, conducted experiments, and fine-tuned parameters using **Cross-validation** techniques.
- Configured and optimized **Google Cloud Platform (GCP)** resources to ensure efficient and reliable model deployment.
- Designed and implemented a data visualization dashboard using **Power BI** to enable stakeholders to gain actionable insights and make informed decisions.
- Actively participated in **Agile** development processes, attending stand-ups, contributing to sprint planning, and delivering high-quality software on time.

DATA ANALYST | MANAV ENERGY PVT LTD., INDIA |FEBRUARY 2017 – APRIL 2018

- Cleaned, transformed, and manipulated data using **SQL** for querying relational databases and Excel for data manipulation and analysis.
- Developed data visualizations and interactive dashboards using **Neo4J**, **RapidMiner** and **Matplotlib** to present findings and communicate insights effectively.
- Conducted data analysis and interpretation using **Python**, applied statistical techniques and algorithms to extract insights and identify trends.

SKILLS & ABILITIES

- **Programming Language:** Python - proficiently applied in diverse applications in Machine Learning, Deep Learning, Reinforcement Learning, and Natural Language Processing.
- **Web Development:** Html, CSS.
- **Database:** SQL, MySQL.
- **Framework:** Bootstrap, Flask.
- **Libraries:** NumPy, Pandas, Matplotlib, Beautiful Soup, OpenCV, Scikit-learn, TensorFlow and Keras.
- **Data Visualization Tools:** Neo4j, RapidMiner, and Power BI.
- **Data Repositories:** Kaggle, GitHub, Web Scraping and **Private Dataset**.
- **Tools:** Anaconda, Git, PyTorch, Sublime Text, VS Code, Google Collab, Jupyter Notebook.

- **Time Management:** Prioritizing tasks effectively, meeting deadlines, and managing multiple projects simultaneously.
- **Communication:** Collaborating effectively with cross-functional teams to achieve project goals and deliver high-quality results based on reliability, and scalability.
- **Collaborative:** Guiding and motivating team members, creating a positive and collaborative work environment to achieve project success.
- **Problem-Solving:** Proficient in critical thinking, identifying root causes, and developing effective solutions to drive results and achieve objectives.

EDUCATION

MASTER OF SCIENCE IN ARTIFICIAL INTELLIGENCE (AI) | 2022 – 2023 |
DUBLIN BUSINESS SCHOOL, DUBLIN, IRELAND.
Modules: Machine Learning, NLP, Deep Learning, Recommender Systems.
Grades: First Class Honors.

BACHELOR OF SCIENCE IN ELECTRICAL & ELECTRONICS ENGINEERING | 2012 – 2016 |
JNT UNIVERSITY, ANDHRA PRADESH, INDIA.
Grades: First Class Honors.

PROJECTS

- **Comparison Of Deep Learning Models for Traffic Sign Detection.**
  - Proficiently implemented AI and deep learning models for traffic sign detection in self-driving cars.
  - Utilized Convolutional Neural Networks (CNN) models, including VGG-16 and ResNet-101, to achieve accurate results.
  - Analyzed accuracy, loss, and other metrics to identify the best model for traffic sign detection.

- **Content Based Movie Recommendation Using K- Nearest Neighbors (KNN).**
  - Developed an advanced movie recommender system utilizing machine learning techniques to provide tailored movie suggestions based on genre, rating, director, and lead actors.
  - Implemented a supervised machine learning model (KNN) to analyze movie attributes and deliver highly accurate recommendations, enhancing user satisfaction.

- **Shoe Brand Detection Using Deep Learning & TensorFlow.**
  - Applied Convolutional Neural Networks (CNN) to achieve precise shoe brand detection.
  - Conducted a thorough evaluation of three models (Sequential, VGG-16, and ResNet-50) with varying layers and architectures, considering performance, accuracy, and loss metrics.
  - Implemented the top-performing model, which exhibited the highest accuracy and lowest loss, ensuring optimal shoe brand detection outcomes, and later successfully deployed the model on the Google Cloud Platform (GCP) cloud service.

- **Wine Data Clustering Using K-Means Clustering.**
  - Utilized Natural Language Processing (NLP) algorithms and unsupervised learning techniques (K-Means clustering) to cluster Wine data accurately.
  - Applied the Term Frequency - Inverse Document Frequency (TF-IDF) modeling technique to evaluate the significance of words and phrases, effectively capturing the essence of the data.
  - Employed an elbow method graph to identify the optimal number of clusters ("K"), facilitating robust data grouping and analysis.

- **Data Acquisition of Website Using Web Scrapping (Beautiful Soup).**
  - Executed data acquisition by digitizing information from targeted websites, facilitating seamless display, analysis, and computer-based storage.
  - Utilized the powerful web scraping tool, Beautiful Soup, to extract relevant data from HTML websites efficiently.
  - Employed the JSON normalizer to transform the scraped dataset into a user-friendly, human-readable format, enabling efficient analysis and interpretation.