CURRICULUMVITAE

MD SHADAB ALAM

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CAREER OBJECTIVE

Seeking a position in an esteemed organization to utilize my skills more efficiently will offer me an opportunity for my professional growth as well as for the development of the organization.

CAREER PROFILE

PROFESSIONAL EXPERIENCE

Organization **SOFCON INDIA PVT LTD.**
Duration **01.12.2022** to **01.05.2023**
Designation **Python Developer**

Responsibilities:

- Writing reusable, testable, and efficient code.
- Familiar with some OOPs (Object Oriented Programming) Libraries.
- Utilize the database MySQL in the project
- Basic working knowledge of frontend techniques such as HTML, and CSS.

Project:

1. **User Authentication System:** Develop a secure and scalable user authentication system to manage user registration, login, and profile management within a Django-based web application.
2. **Email reCAPTCHA Verification System**: Develop a secure user registration system that integrates Google's reCAPTCHA to prevent automated sign-ups and enhances email verification for user account activation in a Django-based web application.

PROFESSIONAL EXPERIENCE

Organization **CODANICS.**
Duration **01.11.2023** to **01.04.2024**
Designation **Data Scientist**

Responsibilities:

- Conducted exploratory data analysis to identify trends and anomalies, leading to actionable insights.
- Created interactive dashboards and visualizations to communicate findings to non-technical stakeholders.
- Developed predictive models that can find a country's house price according to city.
- Analyzed large datasets (Titanic, Iris) using statistical techniques to support business decision-making.
- Developed and maintained reports and dashboards that tracked key performance indicators.

Project:

1. **Heart Disease Prediction:** Develop a predictive model to identify individuals at risk of heart disease using historical health data. The goal is to assist healthcare providers in early detection and prevention of cardiovascular conditions.
2. **EDA on Apple App Store Data:** To understand the characteristics and patterns within the Apple App Store data. The goal is to gain insights that could inform decisions about app development, marketing strategies, or business opportunities**.**
3. **Kaggle Competition Titanic Dataset:** Predict which passengers survived the Titanic disaster based on features such as age, sex, passenger class, and other available information**.**
4. **Kaggle Competition Bank Churn Dataset:** Predict whether a customer will churn (i.e., leave the bank) based on various features such as account information, transaction history, and demographic data.
5. **Paddy Rice Disease Detection:** Develop a system that can detect and classify diseases in paddy rice plants from images, helping farmers take timely action and improve crop yield.
6. **Time Series Weather Forecasting:** Predict future weather conditions (such as temperature, precipitation, or humidity) using historical weather data. This can help in planning, resource management, and mitigating weather-related risks**.**
7. **ARIMA, SARIMA, SARIMAX:** To forecast future values of a time series dataset using ARIMA, SARIMA, and SARIMAX models and to compare their performance**.**
8. **Image Classification:** Develop an image classification model to categorize images into predefined classes using TensorFlow, a popular open-source machine learning library.
9. **MobileNetV2 Pretrained Model:** This project focuses on using a pre-trained MobileNetV2 model for image classification. MobileNetV2 is an efficient and lightweight model designed for mobile and edge devices, making it a great choice for deploying machine learning models in resource-constrained environments.
10. **Stock Market Analysis and Prediction App:** Creating a stock market analysis and prediction app involves several steps, from collecting and preprocessing financial data to building and deploying machine learning models for forecasting stock prices. Here's a comprehensive guide to developing such an app.
11. **Speech-to-Text and Text-to-Speech App:**Creating a Speech-to-Text (STT) and Text-to-Speech (TTS) app involves integrating speech recognition and speech synthesis technologies into a user-friendly application. Below is a detailed guide for building such an app, including code examples and key considerations.
12. **Tip Prediction App:**Creating a tip prediction application with Flask involves building a web interface where users can input data, and the backend predicts the tip amount based on a machine learning model. Below is a step-by-step guide for setting up a tip prediction app using Flask.

ACADEMIC RECORD

Completed B.Sc. in **Mathematics with 69.5%** from Lalit Narayan Mithila University.

Examination/ Degree	Institution Name	University/Board
B.Sc.	Millat College	LNMU
Class 12th	Millat College	BSEB Patna
Class 10th	BKD Zila School	BSEB Patna

TECHNICAL SKILLS

1. **Programming Languages**
   - Python**:** Pandas, NumPy, Scikit-Learn, TensorFlow, Karas, PyTorch.
   - SQL: Query writing, database management, optimization
   - Other Languages: Java, Scala (if applicable)
2. **Data Analysis & Manipulation**
   - **Data** Cleaning**:** Handling missing values, outlier detection
   - Data Transformation: Feature engineering, normalization, encoding
   - Statistical Analysis: Hypothesis testing, ANOVA, regression analysis
3. **Machine Learning & Statistical Modeling**
   - Supervised Learning: Regression (linear, logistic), Classification (SVM, decision trees, random forests, gradient boosting)
   - Unsupervised Learning: Clustering (K-means, hierarchical), Dimensionality reduction (PCA, t-SNE)
   - Model Evaluation: Cross-validation, hyperparameter tuning, performance metrics (accuracy, precision, recall, F1-score, ROC-AUC)
4. **Deep Learning**
   - Frameworks: TensorFlow, Keras, PyTorch
   - Techniques: Neural networks, Convolutional Neural Networks (CNNs), Recurrent Neural Networks (RNNs), Transfer learning
5. **Data Visualization**
   - Libraries: Matplotlib, Seaborn, Plotly, Bokeh
   - Tools: Tableau, Power BI
   - Techniques: Interactive dashboards, storytelling with data
6. **Big Data Technologies**
   - Frameworks: Apache Hadoop, Apache Spark
   - Tools: PySpark, Hive
7. **Database Management**
   - Relational Databases: MySQL, PostgreSQL, SQLite
   - NoSQL Databases: MongoDB, Cassandra
   - Data Warehousing: Redshift, BigQuery
8. **Tools & Environments**
   - Development Environments: Jupyter Notebook, JupyterLab, Google Collab, Markdown.
   - Version Control: Git, GitHub, GitLab
   - Containerization: Docker
   - Cloud Platforms: AWS, Google Cloud Platform, Microsoft Azure
9. **Data Engineering**
   - ETL Processes: Data extraction, transformation, and loading
   - Data Pipelines: Workflow automation, scheduling tasks
10. **Programming Best Practices**
    - Code Quality: Writing clean, maintainable, and efficient code
    - Documentation: Creating thorough documentation for code and analysis
11. **Soft Skills**
    - Communication: Presenting data-driven insights effectively to stakeholders
    - Problem Solving: Identifying and addressing complex business problems with data
    - Collaboration: Working with cross-functional teams to understand requirements and deliver solutions

CERTIFICATION

- Certified Data Scientist: CODANICS

- Certified Python Developer: SOFCON

COMPUTER SKILLS

- MS EXCEL, PowerPoint
- GitHubis used for Software Version Control.
- Chat GPT, Poe, Google Collab, gamma app for PPT presentation, Prompt Engineering, DALL.E

PERSONAL PROFILE

- Father's Name: Mr. MD JAMSHAID ALAM
- Languages Known: English, Hindi& Urdu
- Marital Status: Unmarried
- Date of Birth: 05-08-1998

I hereby declare that the furnished information is true to the best of my knowledge and belief.

Date :

Place:(MD SHADAB ALAM)