VAIBHAV RAJ

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OBJECTIVE

Aspiring Python Developer with a strong background in data science and machine learning, equipped with hands-on experience in developing innovative software solutions. Seeking to leverage my technical expertise and problem-solving skills in a dynamic and growth-oriented organisation to drive impactful projects and contribute to technological advancements.

TECHNICAL SKILLS

Languages: Python, C/C++, Java, HTML CSS & Java Script
Frameworks: Django, React
Databases: MySQL, SQLite
Developer Tools: VS Code, Git & GitHub, Qt Designer, MS Suite
Libraries: Numpy, Pandas, Matplotlib, Seaborn, Scikit-Learn
Analytical Tools: Power BI, MS Excel
Other Skills: Data Structures and Algorithms, AI & ML

ACHIEVEMENTS

Qualified GATE 2024 in Data Science and Artificial Intelligence (DA)

CERTIFICATES

Python for Data Science (Issued by NPTEL)
- Gained proficiency in using Python for data analysis and manipulation, including data cleaning, data visualization, and statistical analysis.

Data Analytics with Python (Issued by NPTEL)
- Learned advanced data analytics techniques, including machine learning algorithms, Statistics, predictive modeling, and data-driven decision-making.

Data Visualization with Power BI (Issued By Great Learning)
- Developed skills in creating interactive and visually appealing data visualizations using Power BI, enabling effective communication of insights and data trends.

Software Engineering (Issued by NPTEL)
- Gained knowledge in software development methodologies, software project management, and best practices in software engineering.

EXPERIENCE

Python Developer Intern, Medic Tech Private Limited (IIT Delhi)   (1 March 2024-Present 2024)
Responsibilities:
- Developed Python solutions for streamlined medical data processing and efficient software integration with hardware, collaborating cross-functionally to enhance coding, testing, deployment, and maintenance processes.

Key Contributions:
1. Image Lab Software:
- Processed images from a hardware tray or uploaded images, applying basic functions such as horizontal movement, angle adjustment, and lane and band detection.
- Extracted gel information for medical analysis, enhancing the efficiency and accuracy of medical image analysis.

2. Automation Machine Software:
- Developed software to automate the creation of nanoparticles from materials.
- Integrated multiple functions into a single software to control the hardware machine, providing a comprehensive automation solution.

Data Science Virtual Internship at Bharat Intern   (1 Month) 2023
Responsibilities & Work:

1. Stock Prediction of any Company using LSTM.
- Implemented LSTM networks for stock price prediction, enhancing accuracy through data preprocessing, hyperparameter tuning, and performance analysis.

2.Titanic Classification
- Built a Titanic survival prediction model using LogisticRegression ML Algorithm, and evaluated with accuracy_score, confusion_matrix, and classification_report.

Data Science Virtual Internship at Code Soft (1 month) 2023

Responsibilities & Work:

1. Titanic Survival Prediction
- Built a classification model to predict passenger survival using logistic regression. Conducted data preprocessing, feature engineering, and data visualization. Evaluated the model using accuracy score, confusion matrix, and classification report.

2. Movie Rating Prediction
- Developed a recommendation system to predict movie ratings based on user data. Applied XGBoost regressor for prediction. Evaluated model performance using mean squared error and R-squared score.

3. Credit Card Fraud Detection
- Created a model to detect fraudulent credit card transactions. Conducted data preprocessing, including scaling features using StandardScaler. Applied logistic regression for classification.Evaluated the model using accuracy score, confusion matrix, and classification report.

Software Engineering Job Simulation Virtual Experience Program

Responsibilities & Work:

1. Interface with Stock Price Data Feed, JPMorgan Chase & Co.: Implemented real-time data processing algorithms for market data feeds.

2. Display Data Visually for Traders: Created visual dashboards using Matplotlib and Seaborn for stock price trends and market indicators.

3. Open Source Contribution: Developed features and fixed bugs in collaborative open-source projects.

PROJECTS

TransVox Transcription System | Python, Qt Designer, NLP (College Project)
- Built with Python and PyQt5, our TransVox comprises TranslateXpress for seamless translation, SoundToScript for voice-to-text transcription, and ScriptToSound for text-to-voice generation. It aims to enhance accessibility and usability by providing comprehensive language and communication tools.

Desktop Voice Assistant (Auris) | Python, NLP (College Project)
- It aims to enable seamless interactions with technology. By integrating speech recognition, NLP understanding, and task execution, users can perform tasks, access information, and receive responses in a natural and efficient manner.

Movie Recommendation System | ML, Python, Pandas, Scikit-Learn, Matplotlib, Seaborn. (College Project)
- Our project uses machine learning to analyse and classify movie data. It delivers personalised suggestions via a user-friendly interface powered by Streamlit, integrating NLP for seamless interaction.

Tic Tac Toe Game | Using HTML, CSS & JavaScript
- Created an interactive Tic Tac Toe game using web technologies. Implemented a responsive design for an optimal user experience across devices. Applied JavaScript logic to handle game mechanics and player interactions.

Rock Paper Scissors | Using HTML, CSS & JavaScript
- Developed a Rock Paper Scissors game to showcase JavaScript skills.Designed a user-friendly interface. Implemented game logic and scoring system using JavaScript.

EDUCATION

Vivekananda Institute of Professional Studies and Technical Campus New Delhi (IPU University)
Master of Computer Applications (MCA) | CGPA- 9.11 2022-2024

Chatrapati Sahuji Maharaj University Kanpur
Bachelor of Science (B.Sc.) | Percentage- 86% 2019-2022

Christ Church Inter College Kanpur
Intermediate | Percentage - 71.20% 2017-2019

Janta Higher Secondary School Rajepur Unnao
High School | Percentage- 86% 2016-2017