VAIBHAV RAJ

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PROFESSIONAL SUMMARY

Software Developer with expertise in Python, data science, and machine learning. Experienced in developing software solutions and eager to apply technical and problem-solving skills in an organization. Seeking opportunities to work on meaningful 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, APIs, Agile Methodologies

ACHIEVEMENTS

- Qualified GATE 2024 in Data Science and Artificial Intelligence (DA)
- Secured a 5-star Gold badge in HackerRank for Python Language

CERTIFICATES

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

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

Data Visualization with Power BI (Issued By Great Learning)
- Developed skills in creating interactive data visualizations.

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

EXPERIENCE

Python Developer Intern, Medic Tech Private Limited (IIT Delhi) (March 2024 - July 2024)

Responsibilities:
- Developed Python solutions for medical data processing using libraries such as Pandas, NumPy, OpenCV 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, improving prediction accuracy by 15%.

2.Titanic Classification

- Built a Titanic survival prediction model using Logistic Regression, achieving an accuracy score of 85%.

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

Responsibilities & Work:

1. Movie Rating Prediction

- Developed a movie rating prediction system using XGBoost, improving model performance with an R-squared score of 0.8.

2. Credit Card Fraud Detection

- Created a credit card fraud detection model, achieving a 90% accuracy score.

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.

PROJECTS

TransVox Transcription System | Python, Qt Designer, NLP (College Project)

- Built with Python and PyQt5, 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, enhancing user engagement by 30%.

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)

- Delivered personalized movie suggestions using machine learning and NLP via a user-friendly interface powered by Streamlit.

Tic Tac Toe Game | Using HTML, CSS & JavaScript (Self Learning)

Rock Paper Scissors | Using HTML, CSS & JavaScript (Self Learning)

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