Suhail Malik

AI/ML

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Professional Experience

Technical Support   **08/2024 – 02/2025**
Capgemini (*Centene Project*)
Noida (NSEZ), India

- Enrolled new healthcare members, generated ID cards, and processed terminations, cancellations, and activations, ensuring precision and timely execution.
- Managed and processed data using the PDP and CCP applications, improving workflow and ensuring accuracy.
- Preprocessed and cleaned healthcare data, performing data visualization based on count and state filters.
- Prepared and triggered healthcare members' ID cards, ensuring timely delivery to clients.
- Handled E2E communication with clients via email, resolving any issues related to data processing.
- Supervised and reviewed data entry work, ensuring accuracy and correcting errors using Python scripts to automate data entry in Excel sheets.
- Worked closely with client teams, ensuring smooth execution of processes and addressing issues promptly.

Data Analyst Intern   **11/2023 – 07/2024**
Toriox (OPC) Pvt. Ltd.
Pune, India
LINK

- Cleaned and merged financial datasets for major currency pairs (EUR/USD, GBP/USD, USD/JPY) to ensure data integrity.
- Applied advanced machine learning techniques (LSTM, moving averages, MACD, RSI) and robust outlier detection, achieving a test loss of 1.44e-06 and prediction accuracy of 81%.
- Developed and deployed LSTM models to predict closing prices and candlestick patterns, achieving 98% accuracy.
- Collaborated with the trading team to integrate real-time predictions with MetaTrader 5, optimizing algorithmic trading strategies.
- Deployed trading bots utilizing indicators such as MACD, SMA, and RSI, enhancing trading decision-making accuracy in live environments.

Education

M.Tech in Data Science   **08/2021 – 11/2023**
Sharda University, Greater Noida, India

B.Tech in Computer Science   **07/2017 – 08/2021**
Teerthanker Mahaveer University, Uttar Pradesh, India

Skills

- **Programming:** Python, C language
- **Database Management:** MySQL, RDBMS
- **Developed BOTS:** Trading Bots, Chatbots
- **Soft Skills:** Problem Solving, Decision Making, Team Collaboration, International Client Communication, Report Generation, Documentation
- **Data Science and Analytics:** AI, Machine Learning, NLP, Deep Learning, Numpy, Pandas, Matplotlib, Tensorflow, keras, Pandas-Profiling, Seaborn, Pyaudio, Joblib, Pyttx3, NTLK etc..,
- **Visualization Tools:** Power BI, Excel
- **Microsoft Office Suite:** Word, Excel, PowerPoint

Projects

Forex Trading Bot   **11/2023 – 02/2024**
GITHUB LINK

- Developed and integrated an advanced **Forex Trading Bot** using *LSTM models*, achieving 98% training accuracy and 70% real-time accuracy.

- Merged and cleaned **financial data**, implementing indicators like *MACD*, *RSI* for informed **trading decisions**.
- **Collaborated** with the *trading team* to deploy multiple *algorithmic trading bots* for enhanced market analysis.

Tools and Technologies:

Programming Languages: Python
Model Loading & Saving: joblib, Keras load_model
Machine Learning: Logistic Regression, Decision Tree, Naive Bayes, KNN
Frameworks: Django using ChatGPT
Libraries: Matplotlib, Pandas, NumPy, Scikit-learn, TensorFlow, Keras
Indicators: MACD, RSI, SMA, Stochastic
Trading Platforms: MetaTrader 5 (MT5), Interactive Brokers API, News API
Version Control: GitHub

Fake News Detection Model   **11/2021 − 08/2022**
GITHUB LINK

- Developed a **fake news detection model** using *LSTM and Bi-LSTM*, achieving 98% accuracy.
- **Published** research paper on the project, contributing to *academic discourse*.

Tools and Technologies:

Programming: Python
Data Analysis: Pandas, NumPy
Text Processing: NLTK, TfidfVectorizer, CountVectorizer
Visualization: Matplotlib, Seaborn
Deep Learning: TensorFlow, Keras (LSTM, Bi-LSTM)
Machine Learning: Logistic Regression, Decision Tree, Naive Bayes, KNN
Metrics: Accuracy, Precision, Recall, ROC-AUC
Version Control: GitHub

Jarvis (Personal AI Assistant)   **07/2018 − 12/2018**
GITHUB LINK

- Developed a extitPython-based AI assistant similar to Alexa, capable of playing songs, reading news, performing web searches, and controlling applications.
- Fully customizable with additional features as per user requirements.
- Built using Python with various libraries for speech recognition and automation.

Tools and Technologies:

Programming: Python
Libraries: SpeechRecognition, pyttsx3, pyaudio
Functionalities: Web Search, Music Playback, News Reading, Application Control
Version Control: GitHub

Minor Project **Text-to-Speech and Speech-to-Text System**
GITHUB LINK
- Developed a Python tool for converting text to speech and vice versa.

Minor Project **Optical Character Recognition (OCR) System**
GITHUB LINK
- Extracted text from images using Tesseract OCR with 95% accuracy.

Minor Project **Library Management System**
GITHUB LINK
- Created a Python-based library system for book management.

Certificates

- **Elite Certificate from NPTEL - Introduction to Research:**   Link
- **Data Scientist Internship Certificate:**   Link
- **IBM Certification in Artificial Intelligence and Machine Learning:**   Link
- **UPKON IEEE Conference - Published Research Paper, Review Paper, and Thesis:**   Link