Mohammed Subhan Pasha (AI ML Developer)

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EXPERIENCE

Generative AI Internship - *Brolly AI* **(Present)**

- Working on generative AI and prompt engineering projects.
- Collaborating with a team to develop AI-driven solutions for automation and natural language processing.

Machine Learning Developer - *TechnocoLabs* **(2024)**

- Developed predictive models to forecast employee attrition, providing actionable insights to HR for improving retention strategies.
- Applied various classification algorithms, including random forests and logistic regression, and evaluated model performance using accuracy, precision, and recall metrics.

Data Science Intern - *Exposys Data Labs* **(2023)**

- Developed a **Diabetes Prediction Website** using **Machine Learning**, **HTML**, **CSS**, and **Django**, achieving 99% accuracy in predictions.
- Integrated front-end and back-end components to ensure a seamless user experience for medical data input and prediction results.

TECHNICAL SKILLS

Programming Languages: Python, R, SQL, Java, C
Artificial Intelligence: AI-driven Automation, Chatbots, LLMs, Transformers (GPT, BERT)
Data Science & Libraries: NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, TensorFlow, Keras, PyTorch, Power BI and Excel
ML and DL: Machine Learning Algorithms, Deep Learning Algorithms (CNNs, RNNs), Natural Language Processing (NLP)
Web Development: HTML5, CSS3, JS, Bootstrap, Tailwind CSS, React, Flask
Version Control: Git, GitHub

PROJECTS

Generative AI App

Technologies Used*: Streamlit, OpenAI API, GPT-2, DALL-E 3, gTTS, Python, PIL, Requests*

- Built a Streamlit web app offering AI-powered features: text generation, image creation, and text-to-audio conversion.
- Integrated OpenAI GPT-2 for generating creative text and **DALL-E 3** for image creation from textual descriptions.
- Implemented gTTS for converting text to speech with real-time audio playback.
- Provided secure access through OpenAI API key integration and ensured smooth user interaction with dynamic inputs and feedback.
- Handled API errors gracefully and displayed relevant messages to enhance user experience.

AI Solutions for Healthcare

Technologies Used: *Flask, Python, Pandas, Scikit-learn, HTML5, CSS3, JS*

- Developed a Flask web app for AI-driven disease prediction (diabetes, stroke, heart, liver, kidney).
- Used ML algorithms (Logistic Regression, Decision Trees, SVM, KNN, Random Forest, XGBoost) for accurate predictions.
- Applied SMOTE for class imbalance and Bagging/Boosting to enhance model accuracy.

AI-Powered Cybersecurity Chatbot

Technologies*: Python, Streamlit, Hugging Face Transformers, PyTorch*

- Built a chatbot using intent matching and **DialoGPT** for cybersecurity queries.
- Used **Streamlit** for real-time interaction and fallback to a pre-trained LLM for unrecognized inputs.
- Optimized model performance by saving and loading locally stored models and tokenizers.

Machine Learning Model Evaluation and Visualization Tool

Technologies Used: *Streamlit, scikit-learn, pandas, Matplotlib, Seaborn, imbalanced-learn*

- Built a Streamlit app to evaluate ML models and visualize data (histograms, heatmaps, box plots).
- Implemented classification algorithms (Logistic Regression, Random Forest, SVM, Decision Trees, KNN, Naive Bayes) for evaluation.

EDUCATION

Bachelor of Engineering (B.E) in Computer Science Engineering	2019-2023
Muffakham Jah College Of Engineering and Technology, Hyderabad	**(C.G.P.A - 7.83)**
Intermediate in MPC	2017-2019
Narayana Junior College, Hyderabad	**(Score - 92.6%)**
10th Standard in SSC	2017
Gowtham model School, Hyderabad	**(C.G.P.A - 8.0)**

CERTIFICATIONS

- **IBM Certified** in Python for Data Science, AI & Development.
- **Workshop Participant:** Exploratory Data Analysis, organized by CSI MJCET
- **R Programming Certification:** Great Learning
- **Data Analytics Certification:** Google

INTEREST

- **Coding**
- **Problem Solving**
- **Physical Fitness**
- **Photography**
- **Competitive Sports**
- **Drawing**