

Suresh Beekhani - Data Scientist and AI/ML Engineer

Overview:

Suresh Beekhani is a Data Scientist and AI/ML Engineer with over 3.5 years of industry experience, specializing in **Artificial Intelligence (AI)**, **Generative AI**, **Natural Language Processing (NLP)**, and **Machine Learning (ML)**. He holds a Bachelor's degree in Computer Science and has extensive experience in developing and deploying **machine learning models** across various industries.

Professional Experience:

- **Generative AI Engineer at Fiverr (Dec 2023 – Present):**
Suresh collaborates with global clients, providing expertise in **predictive modeling**, **NLP**, **computer vision**, and **deep learning**. He is proficient in **Python**, working with **Large Language Models (LLMs)**, **LLMOps**, **vector databases**, and frameworks like **LangChain** and **LangGraph**.
- **Machine Learning Engineer at Upwork (Dec 2022 – Present):**
Suresh has successfully undertaken a variety of machine learning projects, specializing in **predictive modeling**, **NLP**, **computer vision**, and **deep learning**, delivering solutions tailored to client requirements.
- **Associate Machine Learning Engineer at Avanza Solutions (Dec 2022 – Dec 2023):**
Suresh led AI and ML projects, working in a hybrid environment, to develop cutting-edge solutions that enhanced operational efficiencies and provided valuable insights.

Skills and Expertise:

- **Machine Learning & Deep Learning:**
Expertise in building and deploying models for various applications, including predictive modeling, NLP, and computer vision.
- **Natural Language Processing (NLP):**
Proficient in text analysis, sentiment analysis, and language generation using frameworks like **spaCy**, **Hugging Face**, **LangChain**, and **LangGraph**.
- **Generative AI:**
Experienced in creating AI models for generating new content, including text, images, and more.
- **AI Agentic Systems:**
Skilled in developing **AI agents** capable of autonomous decision-making and task execution.
- **Model Deployment:**
Expertise in deploying and managing machine learning models using tools like **Docker**, **AWS services** (SageMaker, Lambda, EC2), and **FastAPI**.
- **MLOps & Cloud Services:**
Knowledgeable in deploying models and managing lifecycle operations in **cloud environments** like **AWS** using **EC2**, **ECR**, **S3**, **EKS**, and **API Gateway**.
- **LangGraph & LangFlow:**
Proficient in building and visualizing language models using **LangGraph** and in building and deploying language models using **LangFlow**.

- **Data Management:**
Skilled in data management and analysis using **Phidata** to ensure streamlined data processes and efficient analysis workflows.
- **Collaborative AI Development:**
Experienced in developing collaborative AI solutions using **Crewal**, enabling the integration of multiple AI systems for comprehensive tasks.

Key Projects:

1. **Medical-Chatbot-RAG-System:**
An AI-powered chatbot that leverages **Retrieval Augmented Generation (RAG)** to provide accurate and up-to-date medical information. It uses advanced language models like **Llama 3.3 70B** and integrates with databases for real-time information retrieval.
2. **WhatsApp Conversations Analysis:**
A web application that analyzes **WhatsApp chat histories**, providing insights into message activity, word usage, media sharing, and user behavior.
3. **Automated Job Extraction & Cold Email Generator:**
Automates the extraction of **job postings** and generates **personalized cold emails** for potential clients using AI.
4. **AI Quick Summarization:**
An AI-powered app that creates **summaries** from various file types (PDFs, images, text) using **Google Gemini AI**.
5. **Conversational SQL Assistant:**
Simplifies database querying by allowing users to interact with databases using **natural language**.
6. **AI ATS Tracking System:**
An **AI-powered app** that evaluates **resumes** against **job descriptions**, providing match scores and feedback.
7. **AI-Powered News Research Tool:**
Enables efficient analysis of **news articles**, allowing users to ask questions and receive detailed answers using AI.
8. **Loan Eligibility Prediction:**
Predicts **loan eligibility** using machine learning models.
9. **Heart Attack Prediction:**
Predicts the **risk of heart attacks** based on medical indicators.
10. **Student Exam Performance Prediction:**
Predicts **student math scores** based on various factors.
11. **Gemstone Price Prediction:**
Predicts the **price of gemstones** using machine learning.
12. **Text Generation using LSTM:**
Generates **text** using a **Long Short-Term Memory (LSTM)** model.
13. **Autoencoder Implementations:**
Explores and implements various types of **autoencoders** for tasks like **data compression** and **anomaly detection**.
14. **Movie Recommender System:**
Recommends **movies** based on user preferences and movie metadata.

Common Themes:

- **AI/Machine Learning:** Many projects utilize AI and machine learning techniques, including **natural language processing (NLP)**, **deep learning**, and **predictive modeling**.
- **Streamlit:** Frequently used to create user-friendly web interfaces for the applications.
- **Data Analysis:** Several projects involve **data analysis** and **visualization**, often using Python libraries like **Pandas** and **NumPy**.
- **Real-World Applications:** The projects demonstrate the application of AI and machine learning to solve **real-world problems** in **healthcare**, **finance**, **education**, and other domains.

Skills Demonstrated:

- **Python:** Primary programming language used throughout the projects.
- **AI/ML Libraries:** Extensive use of **TensorFlow**, **PyTorch**, **Scikit-learn**, and **LangChain**.
- **Data Science Techniques:** Proficient in **data preprocessing**, **feature engineering**, **model training**, and **evaluation**.
- **Web Development:** Using **Streamlit** for building interactive web applications.
- **NLP:** Techniques like **text processing**, **sentiment analysis**, and **topic modeling** are employed.

Services Offered:

- **Machine Learning & Deep Learning Solutions:**
Custom ML and DL models developed and deployed to address specific business challenges.
- **Natural Language Processing (NLP):**
Implementation of text analysis, sentiment analysis, and language generation.
- **Generative AI Applications:**
Creation of AI models capable of generating new content (text, images, etc.).
- **AI Agentic Systems:**
Development of autonomous AI agents for decision-making and task execution.
- **Model Deployment & Management:**
Deployment of ML models using AWS services, Docker, FastAPI, and Flask for scalability and reliability.
- **Chatbot Development:**
Design and implementation of intelligent chatbots for customer engagement and support.
- **Retrieval-Augmented Generation (RAG):**
Integration of **RAG** techniques to enhance AI model outputs by referencing external knowledge bases.
- **LangGraph & LangFlow Solutions:**
Building, visualizing, and deploying advanced language models using **LangGraph** and **LangFlow**.
- **Collaborative AI Development:**
Developing collaborative AI solutions using **CrewAI** for integrated, multi-agent systems.

- **Data Management with Phidata:**

Efficient data management and analysis solutions using **Phidata** to ensure high-quality data processes.

Certifications:

- **Intro to Machine Learning:** Completed on Kaggle.
- **Basics of SQL:** Cleared the assessment on HackerRank.
- **Python Basics:** Mastered the foundational concepts of Python.
- **What is Data Science?:** Completed the IBM course on Coursera.

For more information or to discuss potential collaborations, please contact **Suresh Beekhani** at sureshbeekhani26@gmail.com or call **+92 3401213187**.