Lokesh K

AI/ML Engineer

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# *Objective*

As an experienced AI/ML Engineer with five years of hands-on experience in building efficient applications and solving complex problems, I aim to leverage my skills in Python frameworks, data analysis, and automation to contribute to a dynamic development team and drive impactful projects

# *Experience*

* DLK Technology
* VEI Technologies
* Shine Craft Technologies
* GainHub Technologies

# *Education*

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| Gojan School of Business and Technology | B.EMajor: Computer Science | Cpa:8.38 | Alpha Matric Higher Secondary School Major: HSC | Percentage-62 |

# *Skills & abilities*

* Management
* Problem solving
* Communication
* Leadership
* Computer Skills
* Ability to work in a team
* Communication Skill
* Project Management

# *Projects*

***College Projects***

1. **AI-Powered Spam SMS and Email Detection System Using Deep Learning and NLP**

**Role: Python Developer & AI/ML Engineer**

* Developed a machine learning-based spam detection system to classify SMS and emails as spam or legitimate.
* Implemented Naïve Bayes, LSTM, and Transformer models for text classification.
* Used NLTK, Scikit-learn, and TensorFlow for text pattern analysis, word frequency tracking, and sender behavior modeling.
* Integrated Google Sheets API to store and analyze verified messages for future insights.

1. **Spam SMS and Email Detection**

* *Description:* Built an AI-powered spam detection system to classify SMS and emails as spam or legitimate. The model analyzed text patterns, word frequency, and sender behavior to filter out unwanted messages.
* *Technologies Used:* Python, NLTK (Natural Language Toolkit), Scikit-learn, TensorFlow, Google Sheets API.
* *AI/ML Implementation:* Used Naïve Bayes, LSTM, and Transformer models to classify messages.
* *Outcome:* Verified messages were stored in Google Sheets for future analysis and reporting.

***VEI Technologies Projects***

1. **AI-Driven Chatbot for Internal Odoo ERP System with NLP-Based Automation**

**Role:** Python Developer & NLP Engineer

* Developed and integrated an AI chatbot into Odoo ERP to automate HR processes such as attendance tracking and leave management.
* Leveraged Dialogflow, Rasa NLP, and Python for intent recognition and response generation.
* Automated employee queries and reduced HR workload by streamlining routine administrative tasks.

1. **Automated Email Notification System Using Gmail API and OAuth 2.0**

**Role:** Python Developer & API Integration Engineer

* Designed an email automation system for sending important notifications, approvals, and reminders.
* Used Python, Gmail API, Flask, and OAuth 2.0 for secure authentication and email handling.
* Enhanced operational efficiency by reducing manual email processing.

1. **AI-Powered Resume Screening System Using NLP and Transformers**

**Role:** NLP Engineer & Python Developer

* Built an AI-driven resume parser that extracts, analyzes, and ranks resumes based on job descriptions.
* Used SpaCy, Transformers, and OpenAI API for NLP-based resume screening.
* Reduced HR effort by automating candidate evaluation and shortlisting**.**

1. **AI-Powered Question Answering System for Large Datasets Using OpenAI API**

**Role:** AI Engineer & NLP Specialist

* Developed a knowledge-based AI system that provides accurate answers from structured/unstructured datasets.
* Used OpenAI GPT-4, LangChain, Pinecone, and FastAPI for retrieval-augmented generation (RAG).
* Enhanced knowledge accessibility for businesses and research teams.

1. **Outlook Integration**

* *Description:* Developed an automated email management system using the Microsoft Outlook API for handling scheduling, notifications, and workflow automation.
* *Technologies Used:* Python, FastAPI, Microsoft Graph API.
* *Outcome:* Enhanced email and calendar scheduling for internal teams.

1. **AI in Customer Support**

* *Description:* Built an AI-driven customer support system that automates query resolution using NLP and sentiment analysis.
* *Technologies Used:* OpenAI GPT, LangChain, Python, Flask, Rasa, FastAPI.
* *AI/ML Implementation:* Used deep learning for chatbot response generation, sentiment analysis for prioritization, and voice recognition for speech-to-text interactions.
* *Outcome:* Reduced response times and improved customer satisfaction.

***GainHub Technologies Projects***

* 1. **LMS Dashboard Using Google APIs**
* *Description:* Developed a Learning Management System (LMS) that integrates Google Meet, Drive, and Sheets to facilitate online education and track student progress.
* *Technologies Used:* React, Google APIs, Python, Firebase.
* *Outcome:* Enabled seamless virtual learning with automated tracking.
  1. **Teams API Integration Using FastAPI**
* *Description:* Integrated Microsoft Teams API to automate attendance tracking and store recorded class sessions in OneDrive.
* *Technologies Used:* FastAPI, Microsoft Graph API, PostgreSQL.
* *Outcome:* Improved remote class management and student engagement tracking.
  1. **GSTIN Verification Using Odoo**
* *Description:* Developed an API that verifies GSTIN (Goods and Services Tax Identification Number) for businesses to ensure compliance.
* *Technologies Used:* Python, Odoo, REST API, PostgreSQL.
* *Outcome:* Streamlined financial compliance checks.
  1. **Social Media Integrated CRM with Google Forms and API Automation**
* *Description:* Built a CRM that integrates social media platforms with Google Forms to capture leads automatically.
* *Technologies Used:* Python, Google Forms API, Facebook API, LinkedIn API.
* *Outcome:* Increased efficiency in lead management.
  1. **Travel Management System Using API**
* *Description:* Developed an API for booking hotels, flights, and cars, making travel management seamless for businesses.
* *Technologies Used:* Python, FastAPI, MongoDB, Expedia API.
* *Outcome:* Automated business travel arrangements.

***AI/ML Projects***

* 1. **Lang Chain-Powered AI Chatbot for Document Summarization**
* *Description:* Built an AI chatbot using LangChain that extracts and summarizes key insights from documents and PDFs.
* *Technologies Used:* LangChain, OpenAI GPT-4, FastAPI, React.
* *Outcome:* Enabled quick summarization of lengthy documents for users.
  1. **NLP-Based Resume Screening System**
* *Description:* Developed an AI system to automatically parse and analyze resumes, filtering the best candidates based on job requirements.
* *Technologies Used:* Python, Spacy, Transformers, OpenAI API.
* *Outcome:* Reduced HR workload in the hiring process.
  1. **AI-Powered Code Review Assistant**
* *Description:* Built an AI-powered assistant that analyzes and reviews code for errors, security vulnerabilities, and best practices.
* *Technologies Used:* OpenAI Codex, FastAPI, React.
* *Outcome:* Enhanced software quality and reduced debugging time.
  1. **Question Answering System Using OpenAI API**
* *Description:* Created an AI-driven system that provides precise answers from large datasets or knowledge bases.
* *Technologies Used:* OpenAI GPT-4, LangChain, Pinecone, FastAPI.
* *Outcome:* Improved knowledge management and accessibility.
  1. **Sentiment Analysis and Opinion Mining for Customer Reviews**
* *Description:* Developed an AI model that analyzes customer reviews and classifies sentiments (positive, negative, neutral) to improve business insights.
* *Technologies Used:* Python, NLTK, Hugging Face Transformers, BERT.
* *Outcome:* Helped businesses understand customer feedback better.
  1. **AI-Powered Speech-to-Text and Voice Assistant**
* *Description:* Built a voice assistant using NLP and speech recognition to handle customer queries.
* *Technologies Used:* OpenAI Whisper, Google Speech API, Flask.
* *Outcome:* Enabled hands-free customer interaction.