SHUBHAM MURTADAK AI Engineer

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ABOUT ME

I am an AI Engineer proficient in Python, Machine Learning, Deep Learning, NLP, and Generative AI, passionate about creating impactful solutions. Driven by curiosity and an unwavering desire to learn, I am committed to continuous growth and making meaningful contributions in the field of AI. You can check my work, proof of my latest project: DocEase.in.

EDUCATION

B.E. in Artificial Intelligence & Data Science

2021-2025

PES Modern College of Engineering Pune

CGPA: **9.20**

Senior Secondary (XII), Science

2020

Shree Ganesh Jr College, HSC Board

 ${\rm Grades:}\ \mathbf{83.38\%}$

Secondary (X) 2018

New English School Korhale, India

 ${\rm Grades:}\ 89\%$

SKILLS

Primary Skills:

- Programming Languages: Python, R, C++, SQL
- Python/ML/CV Packages: Pandas, Numpy, Matplotlib, Seaborn, Scikit-Learn
- Knowledge of Machine Learning
- Deep Learning: Neural Network, ANN, CNN, Transfer Learning
- TensorFlow
- NLP: NLTK, Spacy, RNN, LSTM RNN, Transformers
- Generative AI:LLM,RAG,LLM Finetuning
- LangChain Framework, LlamaIndex Framework, Vector Databases, Graph Databases
- Agentic AI, Autogen Framework, Crewai Framework, Langgraph

Secondary Skills:

- WEB TECHNOLOGIES: Basics of HTML, CSS, JavaScript, React, Flask, Fastapi, Streamlit
- DATABASES: MySQL, MongoDB
- Visualization Tools: PowerBI, Microsoft Excel
- Web Scraping: Scrapy, BeautifulSoup, Selenium
- Cloud Platform Services: AWS
- Docker

EXPERIENCE

Bengaluru, Karnataka, India (Remote) Stealth Startup

- Developed a Proof of Concept (PoC) for a SaaS-based chatbot, enabling clients to generate unique URLs and JavaScript snippets for seamless integration into their platforms, while storing conversation history in mongodb and deploying using AWS EC2 instance with Docker. Deployed Link.
- Developed an AI-powered automatic email response system using ai agents for healthcare, integrating MongoDB for internal data retrieval and external healthcare sources for accurate responses. Used AI agents to analyze incoming emails, generate response, calculate confidence scores, preventing responses below 60% confidence from being sent. Built a React-based dashboard for reviewing and editing low-confidence emails and sent them, added a scheduling feature to start/stop automated responses.
- Developed a job portal for an EdTech platform that scrapes job listings from top IT companies, automatically updating the database every day to add newly posted job opportunities, ensuring that users always have access to the latest openings in the industry.

Data Science Intern

June 2024 - jan 2024

Jan 2025 - Present

DataNnoviteSol LLP

Pune, Maharashtra (Onsite)

- Conducted research and development to identify the best tools and solutions for project requirements, ensuring optimal fit for various use cases.
- Developed a comprehensive solution for analyzing and processing clients' transaction and campaign data, incorporating Generative AI to optimize campaign performance.
- Develop Generative AI module for dataRobo, DataNnovite's AI-driven platform, allowing users to query and retrieve document content via a conversational interface.

PROJECTS

1. Automated Business Insights and Campaign Optimization

- Developed an LLM-powered solution using RAG to analyze client transaction and campaign data, enabling data-driven decision-making through a custom dashboard.
- Generated personalized texts messages to Targeted specific customer segments for future campaigns.
- Segmented customers using customer lifetime value (CLV).
- Containerized the entire application using Docker, simplifying deployment, ensuring consistency across environments, and enhancing scalability.
- Tech Stack: Python | LangChain | RAG | Milvus | Time Series Analysis | Flask | Docker

2. DataRobo

- Developed a question-answering module for structured and unstructured documents (KYC forms, PAN, invoices, legal contracts).
- Fine-tuned LLMs (Gemma2 2B, Qwen-2.5 3B) for use-case optimizations.
- Enabled multi-document and Multimodal RAG querying, integrating text and images from PDFs.
- Managed multi-user chat history with MongoDB for context-aware responses.
- Optimized extraction and querying for large PDFs (up to 100 pages).
- Tech Stack: Python | LangChain | RAG | Milvus | Gemini 1.5-Pro | Gemini 1.5-Flash | LlamaParser | Flask | MongoDB

3. Anuwad click here

- Developed an AI-powered translation platform enabling **speech-to-text**, **language translation**, and **text-to-speech** functionalities.
- Built a robust module supporting multiple Indian languages (Hindi, Kannada, Marathi, etc.), ensuring accurate recognition of diverse accents and dialects.
- Integrated IndicTrans2 models for precise language translations with fallback mechanisms for unsupported languages.
- Implemented **bidirectional communication**, allowing seamless interaction between mentor and user languages with a toggle feature.
- Designed an **intuitive React.js-based UI** optimized for accessibility with **visual cues** for real-time translation and speech status.
- Managed user authentication via Firebase, ensuring secure and role-based access.
- Tech Stack: Python | Flask | gTTS | React | Firebase | pyaudio

4. POExtractor click here

- Developed an AI tool for real-time email monitoring and automated purchase order (PO) classification.
- Parsed key PO details (PO number, items, quantities, delivery dates, payment terms) using MiStral-8x7B and LLAMA Parser.
- Built a user-friendly interface with FastAPI (backend) and React (frontend) for data visualization and manual corrections.
- User can edit and send replies to classifed purchase orders mails on React dashboard.
- Enabled multi-format attachment processing (PDF, Excel, CSV, Images, Word).
- Tech Stack: Python | LLAMA Parser | LangChain | FastAPI | React

5. Anuwad - English to Marathi Translator click here

- Developed a neural machine translation model using *TensorFlow*, leveraging the *Bahdanau Attention* mechanism to translate sentences from English to Marathi.
- Implemented an encoder-decoder architecture, where the encoder processes input sequences and the decoder generates target sequences based on context.
- Integrated Bahdanau Attention to improve translation quality by enabling the decoder to focus on relevant parts of the input sequence during generation.
- Built a user-friendly UI using *Flask*, allowing users to input English text and receive Marathi translations seamlessly.
- Tech Stack: Python | TensorFlow | Bahdanau Attention | Flask

6. D-predicto click here

- Developed an end-to-end application predicting diabetes, heart disease, and Parkinson's disease using XGBoost model.
- Integrated an Genai based chatbot into the website to improve user interaction and access to information.
- Included a feature for users to book appointments with doctors if needed.
- Tech Stack: Python | SK Learn | ML | Numpy | Pandas | NLP | Flask | Langchain | GitHub

7. RetainIQ click here

• Developed a system for predicting employee churn using **RandomForest** model to analyze workforce data.

- Implemented features for model training, batch prediction, and single employee prediction to determine retention likelihood.
- Built using Flask for web-based interaction
- Tech Stack: Python | SK Learn | ML | Numpy | Pandas | NLP | Flask | GitHub

CERTIFICATES

- LLM MOOC 2024 by university of Berkeley
- Langchain with python bootcamp Udemy
- ullet tensorflow for deep learning Udemy

ACHIEVEMENTS

- Winners Of Prostart 2023(Software Category)-Team Matrix
- Earned Golden Badge in Python On HackerRank