PRATHAMESH CHAVAN

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I am Prathamesh, an AI/ML enthusiast specializing in **Generative AI, LLMs, and MLOps** with a strong foundation in **Python** and **Data Science**. Over the past few years, I have worked on impactful projects, including an **AI Interviewer system** and an award-winning Mining Project that secured **All India Rank #1** at the **SMART INDIA HACKATHON**. With expertise in **LangChain, Transformers, RAG**, and cloud platforms like **GCP** and **Docker**, I excel at building intelligent solutions. I am passionate about exploring new domains, quickly mastering concepts, and leveraging cutting-edge technologies to solve real-world problems.

EDUCATION

Pimpri Chinchwad College of Engineering, Pune, India | Electronics and telecommunication | CGPA: 8   2021-25
Rajaram College, Kolhapur, India HSC: **79%**   2020-21
Private Highschool, Kolhapur, India SSC: **91%**   2018-19

TECHNICAL STACK: Data Analysis, Data Science, Machine Learning, NLP, Generative AI, MLOps, GCP

Languages C, C++ (DSA, OOP), Python, SQL.

Libraries and Frameworks: Pandas, NumPy, SciPy, SkLearn, TensorFlow, Keras, PyTorch, Beastifulsoup, LangChain, Unsloth Git GitHub.

Deep Learning: TensorFlow, PyTorch, NLP, Spacy, NLTK, Transformers, Vector Databases, LLM Finetuning, Retrieval Augmented Generation (RAG), Prompt Engineering, Generative AI.

Cloud: MLOps, Docker, GCP Services (Vertex AI, BigQuery), Azure.

IntelliHire AI Interviewer

Final Year BTech Project | NLP | LLMs | Hiring Process Automation

- **Solved the problem of generic question generation** by creating a system that generates personalized, resume-based questions instead of relying on a predefined question bank.
- Developed an AI Interviewer system enabling businesses to provide requirements and students to submit resumes, GitHub links, and areas of interest.
- Integrated a **GitHub code parsing agent** and **PyPDFLoader** to analyze repositories and parse resumes, feeding structured data to an advanced LLM workflow.
- Utilized **llama 3.3 70B Versatile** for dynamic question generation based on company requirements and candidate inputs.
- Evaluated student responses on a 10-point scale, scoring technical concepts for each question.
- Automated result storage in Excel, enabling efficient candidate ranking and report generation.

HYDROMINEX

SIH 2023 WINNER #AIR 1 | Image Processing | Autonomous Vehicles | YOLO | AI | Machine Learning

- Designed an intelligent **navigation system** ensuring seamless vehicle operation in adverse weather by integrating **machine learning** with advanced sensor fusion technologies like **GPS, Radar and Camera**.
- Engineered state-of-the-art defogging algorithms and real-time weather forecasting systems, enhancing obstacle detection and collision prediction with precision.
- Developed an AI-powered object detection system using **YOLO v8**, enabling superior accuracy in identifying and tracking objects under challenging conditions.
- Pioneered innovative AI solutions to mitigate accidents, reduce transit delays, and optimize transportation efficiency in extreme weather scenarios.
- Achieved national recognition for impactful contributions to safe and efficient transit systems, setting a benchmark for intelligent mobility solutions.

Automated News Summarization and Analysis:

NLP | Web Scrapping | NLTK

- Engineered an automated news summarization and analysis tool that extracts key points from an average of 1000 news articles weekly and provides sentiment analysis summaries in 150 words.
- Utilized Hugging Face's Transformers for summarization and **NLTK** for text processing. Aided in quickly digesting large volumes of news content through advanced NLP techniques
- Employed NLTK for text preprocessing, including tokenization, stop-words removal, stemming, and lemmatization, to enhance data quality and ensure more accurate summarization and sentiment analysis.