

SAURABH TANDON

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Keen data specialist with expertise in Python, MySQL, and statistical techniques. Dedicated to advancing as a data scientist, my career goal is to tackle complex projects that drive business impact. Eager to apply my skills to assist companies in making informed decisions and maintaining a competitive edge.

WORK EXPERIENCE

Capgemini

09/2024 - Present

Generative AI Engineer

- Developed a web app using Python, LangChain, OpenAI, Faiss, and Streamlit, enabling the team to retrieve relevant project data from a database reducing duplicate efforts by 25%.
- Streamlined project creation processes, saving over 30 hours of manual effort per month and improving overall team efficiency.
- Leveraged advanced GenAI and RAG techniques to enhance search capabilities.

Cognizant Technical Solutions

02/2022 – 08-2024

Data Scientist

- Extensive training in MySQL, Python, ML models, HTML/CSS, and OpenText Exstream.
- Assigned to aid a life insurance company in document management using OpenText Exstream and CCM technology.
- Employed SQL for effective database management, ensuring data integrity, and utilized Python and ML models for analyzing customer feedback and improving decision-making processes.

PROJECTS

Chat with YouTube

08/2023 – 09/2023

- Engineered an advanced **Streamlit** application that empowers users to chat with **YouTube** videos by seamlessly transcribing audio via Whisper and **YouTubeTranscriptApi**.
- Leveraged **LangChain** and **HuggingFace** embeddings to efficiently split, process, and store text as vectors using **FAISS**, driving intelligent, context-aware AI interactions.
- Crafted a dynamic **ConversationalRetrievalChain** with **memory** capabilities, enabling nuanced, ongoing conversations that enhance user engagement.
- Integrated cutting-edge Gemma language model using **HuggingFace** and **Groq APIs**, delivering top-tier **conversational AI** performance and rapid response generation.

Text Summarizer

06/2023 – 07/2023

- Led development of a **Text Summarization** pipeline, achieving impressive **Rouge** scores through **fine-tuning** the **Pegasus** model on **Samsum** data.
- Crafted an intuitive user interface with **FastAPI**, enhancing user experience.
- Seamlessly integrated **Hugging Face Transformers**, showcasing expertise in **NLP** techniques through model **fine-tuning** for optimized performance, playing a pivotal role in project success.

Thyroid Detection

01/2023 – 03/2023

- Built a machine learning model to detect thyroid abnormalities using a dataset with more than **12,000** rows, performing Data Cleaning, Feature Engineering, Preprocessing and Model Building.

- Fine-tuned the model using a Decision Tree with a maximum depth of 8, achieving the test accuracy of **92%**.
- Deployed the model on AWS using a **Docker** image on **ECR** and running it on **EC2** and used **GitHub Actions** for **CI/CD** implementation.
- Used **Flask** to allow users to interact with the model through webpage. Technologies and libraries used are **Python, scikit-learn, MongoDB, Pandas, Docker, GitHub Actions, AWS**.

EDUCATION

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|---|--------------|
| BITS Pilani, WILP | 2024-Present |
| <ul style="list-style-type: none"> • Course: M.Tech in Artificial Intelligence and Machine Learning, 7.77 CGPA | |
| PES Institute of Technology | 2017-2021 |
| <ul style="list-style-type: none"> • Course: B.E in Mechanical Engineering, 8.46 CGPA | |

SKILLS

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|----------|----------------|--------------|---------------|
| • Python | • Hugging Face | • LLMs | • Bert, GPT |
| • OpenCV | • Scikit-learn | • Tensorflow | • Docker |
| • NLTK | • LangChain | • Keras | • Git Actions |
| • GANs | • GenAI | • PyTorch | • AWS EC2 |

CERTIFICATIONS

- Databricks Certified Generative AI Engineer Associate
- Azure Fundamentals AZ-900
- Full Stack Data Science: iNeuron.
- F-22 raptor RC plane using balsa wood and depron sheet: AEROENGINEERS (Engineering Research and Skill Development).
- Team member at ENIGMA (official Automotive club of PES) handling transmission department for BAJA SAE competition.

ACHIEVEMENTS & AWARDS

- Developed RC Drone for agricultural purposes and represented college in different events.
 - Won 2nd prize in college inter-departmental singing competition.
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