

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

Cognizant Technical Solutions 02/2022 – Present

Programmer Analyst

- 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 PDFs 08/2023 – 09/2023

- Created a Streamlit-based web app for PDF uploads and content-related questions.
- Employed large language models (LLMs) to generate informative responses.
- Enhanced context-awareness with LangChain Conversational Buffer memory and Retrieval Chain and implemented a custom vector store using FAISS for efficient passage retrieval.

Text Summarizer 06/2023 – 07/2023

- Led development of a Text Summarization pipeline, achieving impressive Rouge scores through fine-tuning the Pegasus model on Samsun 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.

Sign Language Detection 05/2023 – 06/2023

- Developed a Sign Language Detection project utilizing Yolov5 for object detection by processing 50 custom images of each class.
- Implemented a comprehensive pipeline and deployed the code on AWS, leveraging Docker and ECR for containerization and EC2 instances for deployment.
- Managed data and model storage using S3 buckets and created a user interface using Flask.
- Maintained a robust CI/CD pipeline with GitHub actions. Showcased expertise in deep learning, cloud deployment, Dockerization, AWS services, and continuous integration in project development and deployment.

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

PES Institute of Technology

2017-2021

- 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

- 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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