

# 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

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### Blueflame Labs Pvt. Ltd.

03/2025 - Present

#### AI Specialist

- Designed and deployed an **Agentic AI** application to automate **HRMS workflows** (leave, attendance, payslips, policies, ticketing, employee policy and general queries).
- Built **conversational AI pipelines** with **RAG** and **multi-agent orchestration** for contextual accuracy.
- Integrated **LangGraph** for state-based workflow, **CrewAI-powered search** for dynamic retrieval of internal/external knowledge, case studies, and company updates.
- **Developed secure RESTful API connectors** with HRMS systems for **real-time retrieval** and deployed solution via **Azure Bot Services** and embedded into **Microsoft Teams** for enterprise-wide self-service adoption.
- **Saved almost 50% of HR time and effort** by automating repetitive employee queries and streamlining policy/ticket resolution, ensuring scalability, reliability, and secure integration with HRMS systems.

### Capgemini

09/2024 – 03/2025

#### 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

- Built an **end-to-end solution** using **MySQL** for structured storage of customer feedback data (from surveys, forms, and reviews).
- Preprocessed text data with **Python (NLTK, scikit-learn)** including tokenization, stopword removal, and TF-IDF vectorization.
- Trained **classical ML models** (Logistic Regression, Random Forest, SVM) to classify customer feedback into sentiment categories (positive, negative, neutral).
- Applied **topic modeling (LDA)** to extract recurring themes, helping identify pain points and improvement areas.
- Developed a **web interface (HTML/CSS + Flask)** for querying insights, with visual dashboards showing trends in customer sentiment.

## PROJECTS

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### 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 toptier **conversational AI** performance and rapid response generation.

## 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

BITS Pilani, WILP

2024-Present

- Course: M.Tech in Artificial Intelligence and Machine Learning, 7.77 CGPA

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

- 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.