

Yogesh Yadav

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech(CSE)	Indian Institute of Information Technology Una	7.72 GCPA	2021-2025
Senior Secondary	CBSE Board	89.8%	2020
Secondary	CBSE Board	88.8%	2018

EXPERIENCE

- **ShorthillsAI** Feb 2025 - present
AI/ML Engineer Gurgaon
 - **Question-Answering System for Medical queries (Medibot)**
 - * Developed web scraping pipeline using BS4 & Scrapy to extract & preprocess data for chatbot training.
 - * Integrated **RAG System** with **Llama3.2-7B model**, enhancing chatbot responses with contextual data.
 - * Developed an automated test case generation framework leveraging Llama3.2-7B model to ensure chatbot response accuracy and coherence. Generated a golden dataset via the **Mistral API** for precise validation.
 - * Achieved **final score (weighted average of ROUGE, BERT & cosine similarity) of 72.5%** chatbot performance.
 - **Resume Ranking System**
 - * Developed an AI-enabled candidate-job matching & ranking system, leveraging **n8n, MongoDB, and Azure OpenAI (GPT models)** to streamline candidate filtering for hiring team.
 - * Engineered pipeline for **tailored resume generation** in required format for hiring teams leveraged Azure OpenAI. Implemented a Natural Language Search feature that **searches into the MongoDB**.
 - * Improved HR workflows by increasing work efficiency by **7.5x** and improving job-candidate matching quality & enabling dynamic resume customization for rapid, **targeted candidate selection**.
- **365Alive** Aug 2024 - Oct 2024
Django back-end Remote
 - Developed a Django backend system for 365Alive, streamlining **doctor-patient transaction management**, building robust RESTful APIs (DRF), & enhancing data models for improved granularity.(Similar to khatabook).
 - Significantly **improved operational efficiency and financial tracking** for healthcare providers, enabling better service management and **revenue reconciliation**.
- **GakudoAI** Dec 2023 - Jul 2024
Data Science & Back-end Intern Remote
 - **Career Guidance Q&A System for K12 Students**
 - * Developed **question-answer system** for **K12-students to provide career-related guidance**, Using Azure OpenAI
 - * Contributed to **creating an intuitive UI** for students to easily ask questions & receive clear, concise answers.
 - **Application Development with FastAPI**
 - * Built backend infrastructure for a web application, utilizing **FasAPI** for seamless integration with **MongoDB**.
 - * Implemented robust **data models and API endpoints** for frontend operations & ensure efficient data persistence.
 - * **Contributed to architectural design**, ensuring scalability & reliability for user & application data management.

PROJECTS

- **Built Chatbot(talk to pdfs)** Dec 2023
NLP(Natural Language Processing), Hugging Face Transformers github
 - Implemented **RAG-based chatbot system** with LangChain, FAISS & OpenAI. achieved **75% factual correctness**
- **Face Recognition-Based Attendance Management System** Oct 2023
Computer Vision, Facial Detection, Feature Extraction, Face-recognition github
 - Automated attendance tracking by developing a real-time facial recognition system.
 - Implemented facial recognition algorithms with **98% accuracy (on 525 images)** for automated attendance, significantly enhancing security and eliminating proxy attendance.
- **Movie recommendation system** Aug 2023
NLP(natural language processing), Cosine Similarity, Bag-of-Words Github
 - **Implemented movie recommendation engine** to optimize user engagement and satisfaction by tailoring suggestions based on ratings, viewing history and movie attributes.
 - Implemented **collaborative & content-based filtering on the TMDB 5000 dataset** Achieved 83% Precision@k

KEY COURSES TAKEN

- **Mathematics:** Linear Algebra, Basic Calculus, Discrete Maths, Probability & Random Processes
- **Key Courses Taken::** DBMS, Computer Networks, Operating System, DSA, Computer Architecture, DAA, Machine Learning, Deep learning
- **Online courses::** Machine Learning, Deep learning, NLP, GenAI with LLM from coursera