

# Vedansh Gupta

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## EDUCATION

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- **Pranveer Singh Institute of Technology**, India  
BTech(Electronics & Communication and Engineering), 2024  
**Courses:** DataStructures(DSA), OperatingSystems,MachineLearning,DBMS,OOPS

**CGPA: 7.8**

## WORK EXPERIENCE

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- **Data Science Intern, Skillvertex | Bengaluru, Karnataka** ([GitHub](#))
  - Developed a wine quality predictor web app with *flask*, *HTML* & *CSS* for a large dataset fetched from *AWS S3 Bucket* and deployed *AWS EC2*.
  - 86% accuracy for *RandomforestClassifier* through hyperparameter tuning using *GridSearchCV*.
  - *Dockerized* the web app and also integrated it with *Mlflow* and *dagshub* for experiment tracking.

## PROJECTS

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- **End-to-end kidney disease classification using tensorflow | Python, Flask, Numpy, Pandas, Seaborn.** ([GitHub](#))
  - A *flask* app which helps in classifying whether the person's kidney is healthy or not.
  - It uses *tensorflow* and *keras* to prepare the model, train the model & to evaluate the model.
  - Integrated with *MLFLOW* as well as with *DVC pipeline*.
  - At last, created *CI/CD* pipeline to host the web app on *AWS*.
- **Book store analysis using MySQL | MySQL · XAMPP · SQL · Data Analysis · DBMS.** ([GitHub](#))
  - Engineered a relational database for 10+ tables using *MySQL* to optimize book store operations.
  - Crafted *SQL queries* and stored procedures for efficient sales.
- **GeminiRecruit(Application Tracking Application) | Generative AI · Gemini · Streamlit · Huggingface.** ([GitHub](#))
  - *ATS* built using *Google Gemini*, *streamlit* and *huggingface*.
  - Upload any job description and get your resume score, your blunders & more.
- **InvoiceInsight(Multi-language Invoice Extractor) | Generative AI · Streamlit · Huggingface · Gemini.** ([GitHub](#))
  - It helps you save your time by reading your invoices(both in Hindi and English) and answering your questions such as discounts, due amount, deadlines and much more. Just upload your invoice PDF and input your query.
- **YTtranscriber(YouTube video summarizer) | Generative AI · Streamlit · Gemini · Huggingface.**([GitHub](#))
  - This app, powered by the *Gemini-pro* LLM gets the gist of a whole YouTube video hence a time saver.
  - Input the link to any YouTube video, and our AI delivers a concise, summary. Perfect for quick learning.
- **PDF Query with GPT-4o\_and\_ObjectBox\_VectorDB.**([GitHub](#))
  - Here, I used *ObjectBox* VectorDB a new and efficient way of vector embeddings, with OpenAI's newly launched *GPT-4o(omni)* model to make an end to end LLM *RAG(Retrieval Augmented Generation)* app.
  - Used *GPT-4o(omni)* model from OpenAI.
  - Took *US\_census* PDFs for querying.
  - For word embeddings, used *OpenAIEmbeddings*.
  - Used *ObjectBox* VectorDB stores for storing vectors.
  - Finally, created *retrieval chain* and invoked it for answering the query.

## TECHNICAL SKILLS

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- Languages: C/C++, Python(Proficient), SQL
- Libraries: Pandas, Numpy, Matplotlib, Flask, OpenAI, Tensorflow, NLTK, Streamlit, Langchain, Gemini, Groq
- Technologies: Machine learning, Deep learning, NLP, Generative AI, VectorDB, LLMs, RAG
- DeveloperTools: Git, Github, Dockers, mlflow, Dagshub, CI/CD, Linux, MLops, AWS, Cassandra, Huggingface

## CERTIFICATIONS

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Skillvertex - Data Science Internship completion certificate.  
Coursera(IBM skill network) - Python for Data Science, AI & Development.  
Udemy - A to Z Hands on SQL.