Jenil Patel

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Computer Science Engineer with a strong foundation in Machine Learning, Software development and Data Science. Seeking opportunities to apply my skills and contribute to meaningful projects while expanding my knowledge in emerging technologies.

Education

- **Master of Technology (M.Tech) in Computer Science Engineering *(2024-2026)*** **CPI: 9.5/10**
  IIIT Jabalpur
- **Bachelor of Engineering (B.E) in Computer Engineering *(2020-2024)*** **CPI: 9.38/10**
  Sardar Vallabhbhai Patel Institute of Technology (SVIT) | GTU
- **12th Standard *(2020)*** **Percentage: 80%**
  Bright School |GSHEB
- **10th Standard *(2018)*** **Percentage: 89%**
  Bright School |GSHEB

Technical Skills

- **Programming Languages:** Python, SQL, Java, C
- **Software Development:** Data Structures & Algorithms, OOPs (Java)
- **System Fundamentals:** Operating Systems, Computer Architecture, DBMS, Computer Network
- **Machine Learning & AI:** Supervised & Unsupervised Learning, Deep Learning, Natural Language Processing (NLP)
- **Tools & Frameworks:** MySQL, TensorFlow, Scikit-learn, Numpy, Pandas, OpenCV, Flask, FastAPI, React
- **Version Control & Collaboration:** Git, GitHub, Postman
- **Cloud:** AWS (EC2, S3)

Projects

Video-Summarization & Navigation System (VSNS)
https://github.com/Jenil16/Youtube-Video-Summarization-and-Navigation
- Developed an AI-powered YouTube video summarization tool using Speech-to-Text, NLP, and Machine Learning.
- Assessed BERT and Transformer models for accurate topic segmentation and summary generation.
- Enabled intuitive navigation through timestamps, improving user efficiency by 60% in finding key content.
- **Tech Stack:** Python, Flask, React, NLTK, JS, Assemblyai

Abstractive text summarization technique using transformer model with self-attention mechanism
https://github.com/Jenil16/Abstractive-text-summarization
- Developed a Transformer-based model (T2SAM) to generate concise summaries from lengthy news articles.
- Preprocessed DUC and Inshorts datasets, applied tokenization, padding, and attention masking for model training.
- **Tech Stack:** Python, Tensorflow, Transformers

Criminal Management System
https://github.com/Jenil16/Criminal-Management-System
- Designed a centralized database for efficient law enforcement record management.
- Integrated face recognition technology (OpenCV, Dlib) for automated criminal identification.
- Implemented secure authentication and advanced search filters, reducing lookup time by 50%.
- **Tech Stack:** Python, Flask, OpenCV, MySQL

Chat Analyzer
https://github.com/Jenil16/Whatsapp-Chat-Analyzer
- Created a WhatsApp chat analysis tool using NLP and Data Visualization to extract user activity insights.
- Composed word frequency analysis, emoji usage trends, and response time calculations.
- **Tech Stack:** Python, Pandas, Matplotlib, Seaborn

Experience

Teaching Assistant | IIIT Jabalpur *(August 2024 – Present)*
- Mentored over 50+ students in Data Science, Python and Computer Networks, guiding them in hands-on projects.

Certifications

- **Python & Deep Learning** – *Google Developers Group, Ranchi (2023)*
- **Web Development with JS & React** – *Google Developers Group, Ranchi (2023)*
- **HackSVIT Hackathon** – *HackSVIT, 2023*