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## SUMMARY

MOTIVATED COMPUTER ENGINEERING UNDERGRADUATE AT VIIT PUNE WITH STRONG COMPUTER SCIENCE FUNDAMENTALS IN ALGORITHMS, DATA STRUCTURES, OS, AND DATABASES. SKILLED IN FULL-STACK DEVELOPMENT (DJANGO, NEXT.JS), WITH A KEEN INTEREST IN DATA SCIENCE, AI/ML, AND CLOUD COMPUTING. QUICK LEARNER WITH HANDS-ON EXPERIENCE IN BUILDING IMPACTFUL, SCALABLE TECH SOLUTIONS.

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## EDUCATION

- Vishwakarma Institute of Information Technology** Pune, India  
*Bachelor of Engineering - Computer Science and Engineering; CGPA: 8.44* August 2022 - May 2026  
*Courses: Operating Systems, Data Structures and Algorithms, Databases, Computer Networks, Problem Solving*

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## EXPERIENCE

- Data Analyst Intern - Fluid Control Privated Limited** Jan 2025 - March 2025
  - Analyzed and processed inventory data of 5,000+ child products, enhancing data accuracy by 95% through cleaning, normalization, and transformation.
  - Built a dynamic Next.js dashboard to visualize KPIs, using ML algorithms to extract growth patterns and forecast future inventory demand.
  - Improved team visibility into product trends and accelerated data-driven decision-making by 40%, enabling proactive inventory planning.

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## KEY SKILLS

- Languages:** C++, C, JAVA, Python, JavaScript
- Libraries & Frameworks:** Tailwind CSS, React.js, Node.js, Next.js, Django, TensorFlow, Keras, Scikit-learn
- Tools & Technologies:** Git, MySQL, MongoDB, Jenkins, Redux, Anisible, Jupyter Notebook, Postman, AWS, Docker, Groq, HuggingFace
- Development Methodologies:** SDLC (Software Development Life Cycle), Agile Software Development

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## PROJECTS

- Image Captioning using Python (Deep Learning, Convolutional And Recurrent Neural Network):** Dec 2024
  - Developed a **CNN** for Image Captioning using a **Dense201**-based model, achieving **94%** test accuracy on the **Flicker8K dataset** with five severity levels.
  - Enhanced model robustness with **preprocessing**, **data augmentation** and **overfitting** prevention techniques, ensuring better generalization.
  - Tech: Python, Tensorflow, Keras, JupyterNotebook, Data Analysis**
- Youtube Video Summarizer Application (GenAI, Next.js/Streamlit):** Dec 2024
  - Designed and developed** a feature-rich **Youtube Video Summarizer** in **Next.js**, integrating **Gemini API** for seamless **enhanced summarization capabilities**, enhancing user experience by **40%**.
  - Optimized backend processing by integrating Python, Gemini API and OpenAI Whisper for NLP task**, improving video summarization accuracy, reducing **processing time** by **30%**.
  - Tech: Next.js, React.js, Python, Gemini API, Open AI Whisper, NLP**
- AI-Powered-Data-Understanding-Visualization-Data-Preprocessing-Assistant (GenAI, Data-Analyst):** Aug 2024
  - Designed and developed** an AI-driven data analytics tool with an intuitive Streamlit interface, empowering users to explore, preprocess, and visualize datasets effortlessly.
  - Leveraged Google Gemini AI to generate smart insights** — including feature importance, potential ML applications, and step-by-step preprocessing guidance.
  - Enabled auto-summarization of datasets** (preview, info, stats, unique values) and dynamic chart generation (scatter, pie, bar, histograms) through intelligent prompts.
  - Built a real-time AI chat assistant for custom queries**, delivering contextual responses based on uploaded data.
  - Tech: Python, Streamlit, Pandas, Matplotlib, Google Gemini AI, Data Analysis**

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## PROGRAMMING PROFILES

- Leetcode :** [YashPasalkar](#)
- Github :** [Comp-Yash](#)

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## PUBLICATIONS

- Project: Decentralized Storage Network for Secure Document Management** (Blockchain, Web3, IPFS, Ethereum): Research paper published on researchgate : [LINK](#)  
**Tech:** Ethereum, Solidity, IPFS, Pinata, Python, Streamlit Sep 2023

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## ACHIEVEMENTS

- Supervised Machine Learnings by DeepLearning.AI - [Cousera](#) June 2024
- Advanced Learning Algorithms by DeepLearning.AI - [Cousera](#) July 2024
- Attained a **CoCubes** Test Score of **629/800** August 2024