Tech Stack – YADHU NANDANAN P V

B-TECH CSE STUDENT | µLEARN CETKR EXECOME | AIML ENTHUSIAST | CONTRIBUTING TO A STRONGER DIGITAL INDIA

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1. Development Environment & Coding Tools

- VS Code - Primary code editor with extensions (Prettier, GitLens, Python, Live Server)

- Google Colab - For quick Python and ML experimentation

- Jupyter Notebook - For data analysis and ML workflows

- Replit - Quick collaborative coding/testing

- GitHub - Version control, project hosting

- Git - Version control CLI tool

2. Web Frameworks

- HTML5 / CSS3 / JS - Frontend basics

- Bootstrap - Quick and responsive UI design

- Tailwind CSS - Utility-first CSS framework

- React (Learning Phase) - Component-based UI (planned for deeper learning)

- Flask (Beginner) - Lightweight Python web framework

3. AI/ML Frameworks

- Scikit-learn - Basic ML models (SVM, KNN, Linear Regression)

- Pandas / NumPy - Data manipulation and analysis

- Matplotlib / Seaborn - Visualization tools

- TensorFlow/Keras (Beginner) - Hands-on with ANN basics

4. Agentic AI Tools

- LangChain (Learning phase) - For chaining LLM agents

- Flowise AI (No-code) - Drag-and-drop agentic flows

- CrewAI (Interested to explore)

5. LLM Platforms

- ChatGPT (GPT-4o) - Daily use for code help, research, prompt writing

- Google Gemini - Multimodal experimentation

- Hugging Face - For trying models/datasets

- OpenRouter.ai - Alternate LLM API hub (explored)

6. AI Tools Frequently Used

- ChatGPT - Coding, project planning, PDF design, research

- Krea.ai / Leonardo.ai - AI-generated images

- Notion AI - Note writing and summarizing

- Grammarly - Grammar checker and writing clarity

7. Cloud Platforms

- GitHub Pages / Vercel - Hosting frontend projects

- Render (Learning) - Flask/Backend app deployment

- Google Drive - Cloud backup and sharing

8. Databases

- MySQL - Academic and project use

- MongoDB (Basics) - NoSQL understanding

- SQLite - Lightweight embedded DB for Python/Flask apps

Note:

All tools listed are either regularly used or used with confidence in projects, learning, and daily workflow.