Avdhoot Fulsundar

Full Stack Developer

avdhootfulsundar@gmail.com | +918378034354 | Pune

GitHub | Linkedin | LeetCode

EDUCATION

Vishwakarma Institute of Technology   Pune, Maharashtra, India
Artificial Intelligence and Data Science Bachelors   Nov 2022 - July 2025
CGPA: 8.6

EXPERIENCE

Codecademy | Content Contributor   Remote | Nov 2023 - Present
- Collaborated on GitHub by providing detailed reviews, suggesting changes, and occasionally directly contributing entries.
- Applied technical expertise to improve educational materials, contributing insights into programming languages, algorithms, AI, and other technical subjects.
- Written courses on programming languages like Java and C++.

FreeCodeCamp | Technical Contributor   Remote | Aug 2022 - Nov 2023
- Authored tutorials and productivity hacks, reaching a broad audience and empowering individuals to acquire new skills and advance their tech careers.

SKILLS

Programming Languages:	C++, Python, JavaScript, Java, Rust
Libraries/Frameworks:	React, Nextjs, Nodejs, Flask, Pytorch, Sklearn, Pandas
Tools / Platforms:	Git, Github
Databases:	MongoDB, Postgres

PROJECTS / OPEN-SOURCE

Secure data in images using AES algorithm | Link   *Python, Crypto Library, StreamLit*
- Hide important text within images.
- Convert any file into a secured image.
- Ensure that data hidden in the image can only be accessed by someone with the decryption key.
- Develop the interface and backend using Python.

CodeExplainer | Link   *TypeScript, CSS, JavaScript, Nextjs, Gemini AI API*
- Users can input code, which is processed by the Gemini AI API to generate a detailed explanation.
- The app provides line-by-line explanations of the input code, simplifying user understanding.
- It features an intuitive UI that displays the code structure and its explanation side by side for easy comparison.
- The tool supports multiple programming languages, offering versatility in code understanding.

CodeTestForge | Link   *Flask, Python, JavaScript*
- Built a Flask-based web application that automatically generates Python test cases by analyzing function signatures and type hints
- Implemented code quality analysis featuring complexity metrics and best practice recommendations using AST parsing
- Developed interactive UI with real-time code analysis, syntax highlighting, and test case filtering using JavaScript and Tailwind CSS
- Integrated export functionality supporting multiple testing frameworks (pytest/unittest) with automated edge case detection

StoryWeaver CLI | Link   *Python, LangChain, PyTorch, Hugging Face Transformers, NumPy, Tokenizers*
- Developed a Python-based CLI tool leveraging NLP and embeddings to extract structured character data from story text files, processing up to 10+ files simultaneously with batch support.

- Optimized for efficiency with smart caching of embeddings and FAISS-backed similarity search, achieving up to 40% faster processing compared to standard methods.
- Enhanced user experience with features like role classification, relationship mapping, and robust error handling for missing files or invalid inputs.

Collaborative Whiteboard Application | Link *React, Socket.io, Nodejs, Keycloak, Docker*
- Designed a real-time collaborative whiteboard app enabling simultaneous drawing, sketching, and session sharing for 10+ users with seamless real-time cursor tracking.
- Implemented advanced features like undo/redo, custom drawing tools, color picker, and canvas export for a dynamic user experience.
- Secured user access with Keycloak authentication and optimized communication using Socket.io WebSocket implementation.