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SPANDAN CHAVAN

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EDUCATION

Pune, India **Symbiosis Institute of Technology** **Aug 2022- Aug 2026**
Bachelor of Technology in Computer Science and Engineering (Penultimate)

WORK EXPERIENCE

AI & MLOps- Intern **TechProm IOT Solutions Pvt Ltd** **Jun 2024- Jul 2026**

- **Assisted in R&D of new AI technologies for IoT systems**
- **Collaborated with cross-functional teams to implement AI solutions.**
- **Analyzed large datasets to improve model accuracy and performance.**
- **Managed and optimized MLOps pipelines for seamless model integration**
- **Created detailed documentation and reports on model development and deployment processes.**
- **Automated data preprocessing and model training workflows.**

ACADEMIC PROJECTS

Deepfake Detection webapp- Built a deepfake video detection system leveraging a ResNet50 model architecture. The project involved creating data preprocessing pipelines with **OpenCV** and **TensorFlow**, and using **MTCNN** for face detection. The model was trained and tested on the DFDC dataset, achieving high accuracy in identifying deepfakes. Additionally, developed a web application with **Flask** to showcase the system's real-time deepfake detection capabilities, offering a practical solution for combating misinformation.

PERSONAL PROJECTS

Rust-llm- Developed a chatbot web application entirely in **Rust**, featuring both backend and frontend development. The application uses **TailwindCSS** for styling and leverages **CUDA** acceleration for faster responses. It integrates an open-source language model from HuggingFace for its chatbot functionality. The project works with any text based GGML model

Password-manager- Developed a terminal-based password manager using **Go,** featuring secure password storage, encryption, and a user-friendly TUI with interactive elements for adding, updating, and viewing passwords.

Chat-with-pdf- Developed a web application that lets users upload PDF files and interact with their content through a chatbot. The project uses **Flask** for the backend, **Tailwind CSS** for styling, and PyMuPDF for processing PDFs. It features a custom NLP implementation for extracting and responding to queries about the uploaded documents.

Manufacture- A command-line tool designed to manage and create files with specified names and types efficiently. This tool simplifies file handling tasks, making it easier for developers to create and organize their project files. The tool is easy to install via pip and provides a streamlined workflow for file management from the terminal.

CERTIFICATIONS

- **Coursera UC Santa Cruz** Coding for Everyone: C and C++ Specialization
- **Cisco Networking Academy**- Introduction to cybersecurity and packet tracer, Cyber Security Essentials
- **Stanford Online and Deeplearning.AI:** Supervised Machine Learning: Regression and Classification certificate
- **Stanford Online and Deeplearning.AI:** Advanced Learning Algorithms certificate
- **Stanford Online and Deeplearning.AI:** Unsupervised Learning, Recommenders, Reinforcement Learning certificate

TECHNICAL SKILLS

- Languages: Python, Java, C++, C, JavaScript/TypeScript, HTML, CSS, Rust, Go, SQL, Bash, Lua
- Frameworks and tools: Git, Flask, React.js, Node.js, Next.js, Pytorch, Tensorflow, MySQL, PostgreSQL, MongoDB