SHIVEN PATRO

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Education

Vellore Institute of Technology, Amaravati	**August 2023 – Present**
Bachelor of Technology in Computer Science and Engineering (CGPA - 8.4)	*Amaravati, Andhra Pradesh*
Saraswati Vidya Mandir, Berhampur	**May 2022**
CHSE, Science (Percentage - 83%) (Percentile-92.3%)	*Berhampur, Odisha*
St. Vincent's Convent School, Berhampur	**May 2020**
ICSE (Percentage - 95.8%)	*Berhampur, Odisha*

Experience

Cognifyz Technologies — December 2024 – January 2025
Web Development Intern[View Offer Letter] — *Nagpur, Maharashtra*

- Engineered and delivered **2+ pivotal features** for a client-facing e-commerce platform utilizing **React.js, Node.js, and Supabase**, enhancing application functionality and improving user engagement metrics.
- Identified, troubleshooted, and resolved **15+ critical front-end and back-end bugs** across **2 active web projects**, boosting application stability by an **estimated 10%** and significantly reducing user-reported issues.

Projects

IntelliApply — April 2025
React, TypeScript, Python, FastAPI, PostgreSQL, scikit-learn, Eden AI API, Docker, TailwindCSS, Vite, Firecrawl SDK — **GitHub**

- Built a **full-stack AI job application platform** with **NLP** and ML for matching profiles with jobs.
- Designed a multi-stage **resume parser**, first with regex, then improved with **Eden AI API (Senseloaf)** to extract **30+ skills** and experience from PDF/DOCX.
- Implemented **TF-IDF + Cosine Similarity** job matching using **scikit-learn**, ranking **top 50 relevant jobs**.
- Created an **automated job scraper** via Hacker News API and prototyped WeWorkRemotely scraping with **Firecrawl SDK**.

Hash Chat — March 2025
Solidity, React.js, Next.js, Ethers.js, Hardhat, MetaMask API — **Website**

- Architected a **decentralized Ethereum chat dApp** enabling secure P2P messaging via MetaMask, designed for **high throughput and scalable on-chain storage**.
- Achieved high throughput (est. **100+ messages/sec**) and demonstrated scalable on-chain storage (**10,000+ messages**).
- Realized significant gas savings (est. **75%**) and attained high message delivery reliability (est. **93%**) through optimized smart contract interactions.

Wine Quality Prediction — February 2025
Python, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Imblearn, Jupyter Notebook — **GitHub**

- Developed an ML model predicting red wine quality, achieving **87% accuracy** and **0.83 F1-score** on 1,599 samples using **Gradient Boosting**.
- Addressed **64% class imbalance** with **SMOTE**, boosting recall from **0.71 to 0.85**.
- Identified **alcohol content (0.32)** and **volatile acidity (0.28)** as key predictors of wine quality.

Achievements/Certifications

- **Zonal Finalist – SIH (Smart India Hackathon) 2023:** — **2023**
- **Top 8 Finalist – Technova National Hackathon:** Key contributor to the Hash Chat project. — **2025**
- **Google Foundations: Data, Data Everywhere** — **Certificate**
- **Udemy Complete 2024 Web Development Bootcamp** — **Certificate**
- **JPMorgan Software Engineering Job Simulation** — **Certificate**
- **Nvidia: Intro. to Transformer-Based NLP** — **Certificate**
- **Nvidia: Accelerating End-to-End Data Science Workflows** — **Certificate**
- **IBM: Fundamentals of AI Agents Using RAG and LangChain** — **Certificate**

Technical Skills

- **Languages:** Python, Java, JavaScript, HTML5, CSS3, SQL, R, Solidity, TypeScript, C++, C
- **Full-Stack Dev & DBs:** *Frontend:* **React.js**, **Next.js**, TypeScript, Vite, TailwindCSS; *Backend:* **Node.js**, Express.js, **Python (FastAPI)**, RESTful APIs; *Databases:* **PostgreSQL (Supabase)**, MongoDB, SQLAlchemy
- **AI/ML & Data Science: Scikit-learn**, Pandas, NumPy, **spaCy**, Matplotlib, Jupyter Notebook, Google Colab
- **LLM/GenAI:** OpenAI API, Gemini API (Vertex AI), Claude API (Vertex AI), Groq API, **Hugging Face Transformers**, LangChain (foundational), Ollama, Prompt Engineering
- **Web3/Blockchain: Solidity**, Ethers.js, Hardhat, MetaMask API
- **Cloud & DevOps:** Google Cloud Platform (Vertex AI), **Supabase (BaaS)**, **Docker**, Git, GitHub