

## SHIVEN PATRO

Department of Computer Science and Engineering  
Vellore Institute of Technology-AP

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### INTRO

Aspiring Data Science Engineer with a strong academic foundation and experience in Web Development. Passionately leveraging AI & LLM models to gain expertise in Data Science, Machine Learning, and other software domains, including Cloud Computing and Web Technologies, to build web applications with simple solutions.

### PROJECTS

- **Higgs Boson Rediscovery** | **Link:** [shivenpatro/HiggsBoson-Rediscovery](#) **February 2025**  
Conducted an independent analysis to rediscover the Higgs Boson using publicly available particle physics data. Employed Python and the ROOT data analysis framework to perform data cleaning, feature engineering, statistical modeling, and significance testing, successfully demonstrating the Higgs Boson signal.  
**Built using:** Python, ROOT
- **Wine Prediction** | **Link:** [shivenpatro/wine quality prediction](#) **February 2025**  
Developed a robust wine quality prediction model using machine learning techniques, leveraging Python and Jupyter Notebook.  
**Built using:** Jupyter Notebook, Python libraries-(Pandas, NumPy, Scikit-learn), Matplotlib and Seaborn), Linear Regression
- **Personal Budget Tracker** | **Link:** [shivenpatro.github.io/budget-tracker/](#) **September 2024**  
Simple, sleek with proper animations and workflow.  
**Built using:** HTML, JSX, Tailwind CSS, Vite JS, CSS, Node.js, JSON

### ACADEMIC DETAILS

Degree / Examination	Institute	Year	CGPA / %age
BTech CSE Core	VIT-AP	2023-27	8.4/10 (first 2 sem)
Class 12 CHSE, Odisha Board	Saraswati Vidya Mandir	2020-22	83%
Class 10 ICSE Board	St. Vincent's Convent School	2008-20	95.8%

### RELEVANT COURSEWORK

#### Core Subjects:

Database Management System	Artificial Intelligence	Introduction to Machine Learning
Object-Oriented Programming (Java)	Software Engineering	Data Structures and Algorithms
Applied Statistics	Digital Logic Design	Computer Organisation and Architecture

#### Certificates:

- Coursera Foundations: Data, Data Everywhere (Coursera Certificate)
- Udemy Complete 2024 Web Development Bootcamp (Udemy Course Completion Certificate)
- Career Essentials in Generative AI by Microsoft and LinkedIn (Microsoft Certificate of Completion)
- JPMorgan Software Engineering Job Simulation (JPMorgan Certificate)
- Introduction to Transformer-Based Natural Language Processing (Nvidia Transformer NLP Certificate)
- Accelerating End-to-End Data Science Workflows (Nvidia Data Science Workflow Certificate)

### SKILLS AND EXPERTISE

- **Programming Languages:** Proficient: Java, Python, HTML5, JavaScript, SQL; Beginner: R Programming
- **Data Science & Machine Learning:** Python Libraries (e.g., NumPy, Pandas, Matplotlib, Scikit-learn), R (Beginner), Jupyter Notebook, Google Colab, Data Analysis, Data Visualization
- **Artificial Intelligence:** Google Colab, LLM APIs & Prompt Engineering
- **Web Development:** HTML5, CSS (Flexbox, Tailwind CSS), Bootstrap (Beginner), JavaScript, jQuery (Beginner), JSX, React.js, TypeScript, Express.js (Beginner), Node.js, Web3 (Beginner), APIs (Application Programming Interface)
- **Version Control & Collaboration Tools:** Git, GitHub
- **Document Preparation & Markup:** LaTeX

### ACADEMIC ACHIEVEMENTS

- Swept through the first round of SIH (Smart India Hackathon) 2023 successfully
- Multiple hackaton commitments like Tata Crucible Hackathon, Flipkart Grid Hackathon

### MISCELLANEOUS

- Gold medal in chess at district level in 7th grade
- Silver medal in carrom in inter school competition (6th grade)