TANMAY PATIL

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Projects

LAPTOP PRICE PREDICTION SYSTEM   **May 2025**

- Trained and compared 10+ ML algorithms for laptop price prediction achieving 88% accuracy
- Developed responsive web interface with Streamlit for real-time predictions based on 12 specifications
- Implemented complete ML pipeline from data preprocessing to model deployment with Pickle serialization

CONSTRUCTION COST ESTIMATION A.I. AGENT   **Jan 2025**

- An AI-powered tool that estimates construction costs using advanced LLMs
- Integrated Ollama, Llama 3.2, and Anything LLM for model optimization and inference.
- Designed to assist contractors and architects with real-time cost projections

SPORT CONNECT   **Oct 2024**

- A MERN stack-based social platform for organizing sports events and team management
- Implemented real-time chat, event scheduling, and authentication
- Used MongoDB for dynamic data storage and Tailwind CSS for responsive UI

Training/ Courses

Campus Credentials   **May 2025**

Python Programming & Data Structures

- Completed comprehensive training in Core Python, OOP, and data structures (Arrays, Linked Lists, Trees, Graphs, Stacks, Queues)

Tech Ustaad   **Nov 2024**

Blockchain Development

- Gained hands-on experience in blockchain development, focusing on DApps and distributed ledger technology
- Acquired expertise in Solidity for Ethereum smart contracts, exploring DeFi and NFT implementation

Technical Skills

Programming Languages: Python, HTML, CSS, JavaScript, SQL
Frameworks & Technologies: MERN Stack, Tailwind CSS, Bootstrap
Databases: MongoDB, MySQL
Machine Learning & AI Tools: Scikit-learn, AnythingLLM, Llama 3.2, Ollama
Data Analysis: Pandas, NumPy, Matplotlib, Seaborn
Tools & Platforms: GitHub, VS Code, Jupyter Notebook
Languages: English (Intermediate), Fluent in Hindi, Marathi

Research & Publication

- **Quantum-Secure Unified Blockchain Network (QSUN):** A Decentralized Framework for Interoperable AI-Driven Cybersecurity - Presented at Thakur College of Engineering and Technology (TCET), 2025

Certification

**Python for Data Science	NPTEL (score of 79%)**	**Feb 2025**
**Introduction to SQL	Simplilearn**	**May 2024**
**Python for Beginners – In-Depth Course	Udemy**	**Jun 2024**
**Cybersecurity Workshop (30 Hours)	OWASP, SJCEM**	**May 2023**

Education

ALDEL Institute's St. John's College of Engineering and Management   **2022-Present**
Bachelor of Technology in Artificial Intelligence and Machine Learning (CGPA of 7.05)   *Palghar, Maharashtra*

V.M. JR. PILANKAR COLLEGE   **2020-2022**
H.S.C. – 56.50%   *Revdanda, Maharashtra*

SURVODAY VIDYALAYA   **2010-2020**
S.S.C. – 87.80%   *Sudkoli, Maharashtra*