

Satyam Tomar

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SKILLS

- Languages:** Java (DSA), Python, JavaScript, SQL
- Frameworks:** Node.js, React.js, Express.js, EJS, Bootstrap, HTML, CSS, Tailwind CSS
- Tools/Platforms:** MongoDB, MySQL, n8n, Automation Anywhere, Canva, Git, GitHub
- Machine Learning:** Regression, Classification, Clustering, NLP, RAG (Retrieval-Augmented Generation)
- Data Science:** Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn
- DevOps:** Docker, CI/CD Pipelines

INTERNSHIP

National Load Despatch Centre, GRID India | MERN Stack Intern Jun' 25 - Aug' 25

- Engineered a Demand Analysis Portal using the MERN stack to visualize and manage energy demand data.
- Refined the database schema and migrated legacy datasets, improving **data retrieval speed by 30%**.
- Established secure RESTful APIs with JWT authentication and secure middleware for protected data access.

Tech stack used: MongoDB, Express.js, React.js, Node.js, ECharts, RESTful APIs

Nischay Foundation | Web Content Developer Jun' 24 - Jul' 24

- Modernized the Organization's website by creating and managing content through WordPress.
- Updated new posts and pages while optimizing website structure for improved accessibility and navigation.
- Standardized the user interface layout to align with the organization's mission and branding.

Tech stack used: WordPress

PROJECTS

VisionCloud - AI-Powered Smart Surveillance System | Github Oct' 25 - Nov' 25

- Designed a cloud-based AI surveillance system that **connects standard IP cameras** via Wi-Fi to a web portal, converting them into intelligent vision devices for roads and hospitals
- Leveraged Hugging Face models (BLIP, YOLO) and Generative AI APIs for real-time face recognition, scene description generation, and AI-driven Q&A interaction with **~80% accuracy**.
- Containerized the system using **Docker**, enabling scalable cloud execution, live streaming and automated AI insights.

Tech stack used: Python, Flask, Hugging Face APIs, Docker

LuxuryDrive - Vehicle Rental Platform | Github | Live Aug' 25 - Sept' 25

- Developed a **RESTful API** integrated with **MongoDB** for seamless CRUD operations, handling all core application functionalities.
- Incorporated **MVC architecture**, integrated **Google OAuth 2.0** authentication, and leveraged **Cloudinary** for secure user data and media management.
- Crafted a responsive, mobile-first interface using **HTML, CSS, JavaScript, and Bootstrap**, ensuring cross-device accessibility

Tech stack used: Node.js, Express.js, MongoDB, EJS, Google OAuth, Cloudinary

TRAINING

Cipher Schools | Machine Learning with Data Science Jun' 25 - Jul' 25

- Performed data cleaning and preprocessing using Excel and Python to prepare high-quality datasets.
- Applied supervised and unsupervised ML models, building projects and achieving up to 92% accuracy.
- Utilized Seaborn and Matplotlib for data visualization and pattern analysis through EDA.

CERTIFICATES

- Generative AI - Oracle University | [Link](#) Oct' 25
- Vector Search - Oracle University | [Link](#) Oct' 25
- Cloud Computing - NPTEL | [Link](#) Apr' 25

ACHIEVEMENTS

- Solved **250+** DSA problems on **LeetCode, GFG, and HackerRank**, strengthening problem-solving skills.
- Served twice as Class Representative, leading academic coordination and communication.

EDUCATION

- Lovely Professional University** Phagwara, Punjab
Bachelor of Technology - Computer Science and Engineering; **CGPA: 8.69** Since Aug' 23
- Alpine Public School** Baghpat, Uttar Pradesh
Intermediate; **Percentage: 84%** Apr' 22 - Mar' 23
- Alpine Public School** Baghpat, Uttar Pradesh
Matriculation; **Percentage: 86.4%** Apr' 20 - Mar' 21