Shivansh Tripathi

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Education

Vellore Institute of Technology, Chennai, Tamil Nadu   *Sept 2022 – July 2026*
B.Tech in Electrical and Electronics Engineering
City Montessori School, Lucknow, Uttar Pradesh   *2021 Passout*
Alumini

Projects

Photogen | *FastAI, Cloudflare, Next.js, React, PostgreSQL, Clerk, Turborepo*   *Feb 2025 – Present*
- Developed an AI-powered photo generation/training web app, allowing users to train their faces on photos and generate candid portraits.
- Utilized Fal-AI models to train and generate candid user images.
- Implemented a strategy pattern in JavaScript to dynamically switch between two AI models based on cost-efficiency.
- Managed user data with Clerk, PostgreSQL, and Cloudflare, ensuring scalability and security.
- Leveraged Turborepo for fast bundling and optimized browser compilation, enhancing user experience.

Otto | *Electron.js, Node.js, Windows API, AI Integration, Git*   *Nov 2024 – Present*
- Developing an AI-powered Windows desktop assistant that manages wallpapers, schedules, and automates tasks.
- Integrating the Windows API for system monitoring, error detection, and IDE activity tracking.
- Enabling AI-powered daily planning, notifications, and workflow automation.
- Designing a lightweight, always-on application with startup launch capabilities for uninterrupted performance.

AutoGear | *Next.js, React, Reactflow, PostgreSQL, Google APIs, Clerk*   *Jan 2024 – Feb 2025*
- Developed a full-stack web application to streamline workflow automation.
- Implemented automation by integrating Slack, Notion, Discord, and Google Drive APIs.
- Visualized user connections through Reactflow, providing a seamless user experience.
- Managed applications by linking them together and forming automated workflows.

Technical Skills

Languages: C/C++, Java, Python, SQL (PostgreSQL), JavaScript, TypeScript, HTML/CSS, MATLAB
Frameworks: React, Node.js, Next.js, Shadcn, Turborepo, FastAI, Google API, FastAPI, Bun
Developer Tools: Git, Clerk, FastAI, Google Cloud Platform, VS Code, PyCharm, IntelliJ, Jupyter, Docker
Libraries: pandas, NumPy, Matplotlib, JSZip, FastAI

Certifications

- Machine Learning specialization by Deeplearning.ai – *Expected 2025*
- Deep Learning specialization by Deeplearning.ai – *Expected 2025*

Relevant Coursework

- AWS Cloud Computing
- Advanced Competitive Coding