

Utsav Changani

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Technical Skills

- **Programming Languages:** HTML, CSS, JavaScript (Node.js, React.js, Next.js, Vue.js, Angular, React Native, TypeScript), Python (Flask, Django, Tkinter, Pytest, Selenium, NumPy, Pandas, Matplotlib, Seaborn, SciPy, Scikit-learn, TensorFlow, Keras, PyTorch, XGBoost, LightGBM, CatBoost, OpenCV, Dask, Manim, MongoDB, Transformers), C (Standard Libraries), C# (.NET Framework, .NET Core, ASP.NET Core, Entity Framework), Java (Spring Boot/MVC/Security, Apache Maven, Apache Kafka, Kotlin), PHP (REST APIs, MySQL/PostgreSQL)
- **Management:** JIRA, Slack, Scrum, Kanban
- **CI/CD & DevOps:** Jenkins, Travis CI, Git, GitHub, Docker, Docker Compose, Kubernetes
- **Cloud Services:** Google Cloud Platform (Firebase, Google AI Studio), AWS (EC2, S3, Lambda, CloudWatch, IAM, DynamoDB, Bedrock, Cognito, Amplify, API Gateway)
- **Other Tools:** Expo, LangChain, LangGraph, Ollama, Postman, Notion, OpenAI APIs, Figma, Zapier
- **Operating Systems:** Windows, macOS, Android, iOS, Linux

Experience

Laxmi Diamond Pvt. Ltd

Surat, GJ

(Data Analyst Intern)

Jan 2022 - Oct 2022

- Analyzed diamond inventory and market trends using SQL and Python (Pandas, NumPy) for a company with ₹480M capital and 100,000+ sq. ft. operations, driving 15% improvement in supply chain efficiency.
- Automated reporting processes, reducing report generation time by 30% and enhancing decision-making for 243+ employees.
- Created dynamic dashboards with Matplotlib and Seaborn to visualize insights from 200K+ data points, directly supporting strategic decisions for a top diamond exporter.

Education

Computer Programming and Analysis

Toronto, ON

George Brown College

Jan 2023-April 2025

Projects & Research

- **BEG LZ (Co-Founder):** AI-powered mobile app for Android/iOS that scans ingredients, provides nutritional info, and scores meals (90% accuracy; 500+ users in 6 months). (React Native, Bedrock, Cognito, S3, Lambda, API Gateway, Amplify, DynamoDB, Node.js)
- **VitaE (Co-Founder):** AI tool generating custom resumes and cover letters, boosting efficiency by 40%. (Adapted BEGLZ tech stack)
- **GBC Event Booking System (Microservices):** Scalable event booking platform with 3 microservices (Room Booking, Event Management, Approval) ensuring secure RBAC, fault tolerance, and real-time processing. (Spring Boot, Keycloak, Kafka, Resilience4J, Docker, Maven)
- **Artificial Consciousness Research:** Simulated emergent LLM consciousness with Google Gemini AI; 3 introspection cycles improved response accuracy by 30% each. (Google AI Studio, Python, AI/NLP libraries)
- **Predicting Problematic Internet Usage:** Developed an XGBoost model that increased prediction accuracy by 15% and reduced training time by 20% with CUDA acceleration. (XGBoost, Python, Scikit-learn, Optuna, SMOTE, CUDA)
- **More Academic and Personal Projects can be found on my [GitHub](#) page.**