



# Ravi Kumar Thekare

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## ABOUT ME

Software Developer pursuing a Master's in Professional IT, Business & Digitalization, with a growing interest in AI and data science. Experienced in web development and currently exploring machine learning through university projects and hands-on experimentation. Passionate about applying AI technologies to solve practical problems. Seeking a working student position to learn, contribute, and grow in AI-driven projects.

## EDUCATION AND TRAINING

### MASTER OF SCIENCE IN PROFESSIONAL IT BUSINESS AND DIGITALIZATION

*HTW Berlin (University of Applied Sciences)* [ 01/09/2025 – Current ]

City: berlin | Country: Germany | Website: <https://www.htw-berlin.de/en/>

Currently enrolled with 1+ year remaining at HTW Berlin. Focus on cloud computing, IoT systems, full-stack development, and data-driven applications.

### BACHELORS OF SCIENCE IN COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

*New Summit College* [ 2015 – 2020 ]

City: Kathmandu | Country: Nepal | Website: <https://newsommit.edu.np/>

## WORK EXPERIENCE

**Sterling Wells Nepal, Product Development** – kathmandu, Nepal

### Associate Developer

[ 03/04/2023 – 30/04/2024 ]

- Developed a comprehensive property tax platform for [UK Property Accountants \(UKPA\)](#), including [30+ tax calculators](#), [assessment forms & eligibility checkers](#), and internal tools such as proposal generators and engagement letter automation systems.
- Built and deployed the [Sterling Wells Education Group](#) website end-to-end, integrating payment solutions, content management, and SEO optimization across the full product lifecycle.
- Collaborated closely with cross-functional stakeholders, consistently delivering tasks on schedule while maintaining high code quality and attention to detail

**Insperon Infosys & Technology** – Kathmandu, Nepal

### Frontend Developer

[ 10/01/2022 – 04/2023 ]

- Developed and maintained responsive web interfaces and CMS-based websites, gaining hands-on experience in frontend development, WordPress, and SEO optimization.
- Implemented UI components and page layouts across multiple client projects, ensuring cross-browser compatibility and performance.
- Contributed to team projects in a hybrid work environment, building foundational skills in modern web technologies and development workflows.

## SKILLS

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### FRONTEND DEVELOPMENT

React | Next.js | TypeScript | JavaScript | HTML5 | CSS3 | Tailwind CSS | Material UI | Bootstrap

### ARTIFICIAL INTELLIGENCE & DATA SCIENCE

LLM APIs & Tools: OpenAI | Claude | Gemini | Perplexity | Claude Code / AI Development: LangChain | RAG | Vector Databases | Prompt Engineering | AI Agents | Vibe Coding / Machine Learning: Supervised/Unsupervised Learning | Neural Networks | Classification | Regression / Data & Visualization: Python | scikit-learn | pandas | NumPy | Matplotlib | Seaborn

### BACKEND DEVELOPMENT

Node.js | Express.js | Python | REST APIs MongoDB | PostgreSQL | Supabase

### CLOUD, DEPLOYMENT & TOOLS

AWS (EC2, S3, Lambda) | Vercel | Git/GitHub | Docker | CI/CD | VS Code | Jupyter Notebooks | Cursor

## ACADEMIC PROJECTS

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### InterviewTwin — AI-Powered Interview Simulation Platform | Semester 2 (In Progress)

An AI-driven mock interview platform using RAG and LLMs to simulate real interviews, generate personalized questions from CV and job descriptions, and deliver structured performance feedback.

- Built a full RAG pipeline with LangChain, pgvector, and Gemini API for context-aware, adaptive interview question generation and automated multi-dimensional scoring
- Developed real-time voice interaction using Web Speech API with AI-generated responses, live transcription, and session-based conversation memory
- Architected end-to-end AI system with FastAPI backend, Next.js frontend, and Supabase vector database deployed via CI/CD pipeline

Link: <https://github.com/Ranzim/InterviewTwin>

### Multimodal Sleep Disorder Classifier — ML Classification Pipeline | Semester 1

A machine learning classification system to predict sleep disorders (Insomnia, Sleep Apnea, or None) using health and lifestyle metrics with automated feature engineering and model comparison.

- Built end-to-end ML pipeline with Scikit-Learn, implementing data preprocessing, feature scaling, and encoding to prevent data leakage
- Engineered custom features including systolic/diastolic blood pressure extraction, Stress-Sleep Risk metric calculation, and BMI category mapping
- Compared multiple classification models (Logistic Regression, Random Forest, Decision Tree) using GridSearchCV for hyperparameter tuning, achieving 94.7% test accuracy
- Implemented full data science workflow including exploratory data analysis, feature engineering, model evaluation with precision/recall/F1-score metrics, and model serialization for deployment

Link: <https://github.com/Ranzim/multimodal-sleep-classifier>

### SNM-Webapp — Web layer for SharkNet decentralized P2P messaging framework | Semester 1

A web-based management interface built on top of the SharkNet open source framework, enabling peer-to-peer encrypted communication through a modern web UI and REST API.

- Exposed core CLI functionality through a structured REST API, enabling peer creation, switching, and ASAP hub interaction without direct CLI access
- Implemented full peer lifecycle management including runtime control, data persistence, and graceful shutdown across all TCP connections
- Contributed to an active university open source project, deploying the application via Apache Tomcat with Java, JavaScript, and CSS

Links: <https://github.com/beingbiplov/SNM-Webapp> | <https://github.com/SharedKnowledge/SharkNetMessenger>

## IoT Environmental Monitoring & Alert System | Semester 1

- Built an IoT monitoring system with ESP32, DHT22, Raspberry Pi, MQTT, and Node-RED
- Streamed sensor data via MicroPython and MQTT into Node-RED dashboards
- Computed dew point and other metrics with custom Node-RED logic
- Sent Telegram alerts and daily environmental summary reports

Link: <https://github.com/Ranzim/EnviroGram>

## LANGUAGE SKILLS

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**Mother tongue(s):** Nepali

**Other language(s):**

**English**

**LISTENING C1 READING C1 WRITING B2**

**SPOKEN PRODUCTION B2 SPOKEN INTERACTION C1**

**German**

**LISTENING A2 READING A2 WRITING A2**

**SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2**

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*