

Yashmitha Desai

yashmitha.desai@gmail.com | [About Me](#) | [LinkedIn](#) | [GitHub](#) |
Bangalore, Karnataka, India

TECHNICAL SKILLS

Languages: Python, C, HTML, CSS, JavaScript, PHP, Java, Kotlin
Developer Tools: VS Code, GitHub, Android App Development
Technologies/Framework: React, Node.js, Express.js, MongoDB, SQL

WORK EXPERIENCE

Vortex Media Management

Front-end Development Intern

- Build responsive dashboards using **Next.js**
- Develop clean, secure, and scalable front-end interfaces
- Work closely with teams to meet real-world deadlines

04/25-05/25
Bangalore, Karnataka

SpikedAI

Product Development Intern

- Integrated Asana API for real-time, bi-directional task syncing in sales meetings
- Implemented AI-driven task suggestions derived from meeting analysis
- Developed 360° CRM dashboards for unified customer intelligence

11/25-present
Bangalore, Karnataka

EDUCATION

- **R.V College of Engineering** | CGPA : 9.3
B.E in Computer Science and Engineering(CyberSecurity)
- **Deeksha C F L PU College** | State : 95.5%
12th State
- **Sishu Griha English School** | ICSE : 96.67%
10th ICSE

September 2023 - Present
Bangalore, Karnataka
May 2023
Bangalore, Karnataka
March 2021
Bangalore, Karnataka

PROJECTS

Digital Twin for Smart Buildings

Dec 2025

Tools: Python, FastAPI, React.js, TensorFlow (LSTM/Autoencoder), InfluxDB, Hugging Face (Llama-3), WebSockets, Vercel/Render [\[GitHub\]](#)

- Architected a real-time Digital Twin platform featuring interactive **3D visualization (Three.js)** and live telemetry via WebSockets, enabling immersive remote monitoring of HVAC dynamics and building systems.
- **Deployed advanced ML pipelines** (LSTM & Autoencoders) trained on the **ASHRAE dataset** to forecast 24-hour energy loads and detect system anomalies, driving data-led decisions for energy efficiency and retrofitting.
- Integrated a GenAI assistant powered by **Llama-3.2-3B** to interpret complex building metrics through natural language, allowing facility managers to instantly query status and receive optimization suggestions. Deployed on [Vercel](#).

AI-Powered Peer Learning Matcher

Jan 2026

Tools: Python, FastAPI, BERT (Sentence Transformers), Knowledge Graphs, REST APIs, HTML/CSS/JavaScript [\[GitHub\]](#)

- Engineered a hybrid recommendation system combining NLP semantic analysis (all-MiniLM-L6-v2) with a custom **ontology-based Knowledge Graph** to match students based on complementary strengths and weaknesses.
- **Developed a dual-scoring algorithm** that calculates both "Contextual Fit" (cosine similarity) and "Structural Overlap" (Jaccard similarity), increasing matching accuracy by recognizing indirect skill relationships (e.g., mapping "FastAPI" to "Web Development").
- Built a high-performance REST API using FastAPI to serve real-time matching results and project recommendations, featuring a responsive, glassmorphism-styled frontend for seamless user interaction.

Phishing Detection

April 2025

Tools: Python, Flask, Neo4j, CSS, HTML [\[GitHub\]](#)

- Built a Flask-based web app to detect phishing using Levenshtein distance, Jaccard similarity, and entropy scoring. Visualized suspicious domain clusters using Neo4j to identify brand-targeting patterns.
- Designed a **Chrome extension** for real-time domain checking with a visual **risk meter** and redirect suggestions. Integrated bulk domain checker, **SSL certificate status**, and **WHOIS lookup** for enriched threat analysis
- Achieved 95%+ accuracy and <200ms response time for known phishing domains. Developed an admin analytics dashboard for monitoring phishing trends and activity.

Football Team Optimization

December 2024

Tools: Python, Python-flask, React, MERN stack [\[GitHub\]](#)

- Built an AI-driven system to shortlist football candidates based on performance metrics. Utilized **NumPy** and **Pandas** for data analysis and preprocessing.
- Visualized candidate performance using **Matplotlib** and **Seaborn** for insights. Trained machine learning models with **Scikit-learn** for candidate evaluation.
- Developed a dynamic frontend using **React.js** for user interaction. Integrated a **Node.js** backend for efficient data handling and model deployment. Secured user authentication by storing login details in **MongoDB**. Successfully hosted the website on **Streamlit**.

Automated Home Gardening

December 2024

Tools: Android Developers, Arduino [\[GitHub\]](#)

- Built an advanced gardening app using **Android Developers** and **Arduino** for hardware integration. Integrated sensors to monitor key parameters like soil moisture and temperature. Utilized **Java and Kotlin** for the development of the app.
- Automated gardening suggestions based on sensor data and weather predictions. Combined software and

hardware solutions for efficient, data-driven automation.

PATENTS AND PUBLICATIONS

C=CONFERENCE, J=JOURNAL, P=PATENT, S=IN SUBMISSION, T=THESIS

- [C.1] Yashmitha Desai, et al. (2024). **Wind turbine configuration for urban areas using QBlade**. In *International Conference on Modeling, Simulation and Optimization (CoMSO 2024)*, 9/4/24, NIT Silchar.
- [C.2] "Adversarial Attack & Defense on Image-Based CAPTCHA," *2026 IEEE International Conference on Smart Future Technologies (ICSFT)*, Jan 2026.

ADDITIONAL INFORMATION

Community Service Program: Volunteer at NSS RVCE, member of IEEE (Treasurer at IEEE SIGHT)

Club activities: Active member of design and media team at TEDxRVCE and E-CELL RVCE

Languages: English, Telugu, Kannada, Hindi

Interests: Dancing, Reading, Playing Ukelele, Travelling