

Devesh Tiwari

AI & Full Stack Developer

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PROFESSIONAL SUMMARY

Innovative Computer Science undergraduate specializing in **Generative AI** and **Full-Stack Engineering**. Experienced in building autonomous agents using **LangGraph** and **RAG** pipelines, alongside scalable web architectures with **Next.js** and **TypeScript**. Proven track record of combining technical expertise with leadership, having driven a **108% increase** in community engagement as a Creative Lead. Passionate about solving complex problems at the intersection of AI and modern web development.

EDUCATION

Sambhram Institute of Technology

B.E. in Computer Science

Bangalore, Karnataka, India
2023 - 2027
Current CGPA: 8.8/10

TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript, TypeScript, SQL, HTML5, CSS3

Frameworks: Next.js, React.js, Node.js, Express.js, Spring Boot, TensorFlow, LangGraph

Cloud & Databases: Google Cloud (Vertex AI), MongoDB, Supabase, PostgreSQL, Firebase, Docker

AI & Security: Generative AI, RAG Pipelines, Prompt Engineering, NLP, Penetration Testing

WORK EXPERIENCE

Creative Team Lead

Sep 2025 – Present

2025 Present
Bengaluru, IN

- Spearheaded student outreach initiatives and digital engagement strategies, driving a **108% increase** in event attendance (scaling from 120 to 250+ active participants).
 - Reduced administrative processing time by **80%** by deploying a QR-code check-in system and automating the certificate generation pipeline.
 - Directed a team of creative designers to produce high-quality assets for technical workshops and hackathons, ensuring consistent brand representation.
 - Mentored junior members on design best practices and user experience principles, fostering a culture of innovation.

Artificial Intelligence Intern

June 2024 - August 2024

ast 2024

- Constructed a **Text Classifier** using **TensorFlow** and NLP techniques to accurately categorize complex datasets.
 - Designed and fine-tuned a **Vision Transformer (ViT)** architecture for image classification, outperforming standard CNN benchmarks.
 - Leveraged **Pandas** and **NumPy** for extensive data preprocessing, cleaning, and dimensionality reduction to optimize model training.
 - Visualized model performance metrics and training loss curves using **Matplotlib**, generating actionable insights for hyperparameter tuning.

PROJECTS

- **WealthWise - AI Finance Manager** | *Next.js, Supabase, Google Gemini API, Clerk*
Architected a full-stack financial platform utilizing **Google Gemini AI** for automated receipt parsing. Integrated secure authentication via **Clerk** and background job scheduling with **Inngest**, employing **Recharts** to visualize financial health through interactive dashboards. [GitHub](#) | [Live Demo](#)
 - **E-Commerce Backend API** | *Node.js, Express, MongoDB, JWT*
Developed a scalable **RESTful API** supporting secure **JWT-based authentication** and role-based access control. Structured optimized **MongoDB** schemas for product inventory and cart management, with comprehensive endpoint documentation maintained in **Postman**. [GitHub](#) | [Postman Docs](#)
 - **DevFolio: AI-Integrated Portfolio Platform** | *Next.js 15, TypeScript, LangGraph, Google Gemini, RAG*
Launched a responsive developer portfolio using **Next.js 15** and **TypeScript**, featuring an embedded autonomous AI agent. Engineered the agent's core using **LangGraph** and a **RAG** pipeline with **FAISS** to semantically index GitHub repositories, ensuring real-time data synchronization. [GitHub](#) | [Live Demo](#)
 - **Vision Transformer (ViT) Implementation** | *TensorFlow, Deep Learning, Python*
Built a Transformer-based architecture for image classification on the **CIFAR-10** dataset, eliminating reliance on CNNs. Incorporated advanced mechanisms including patch extraction and **Multi-head Self-Attention** to achieve high validation accuracy in computer vision tasks. [GitHub](#)

CERTIFICATIONS & TRAINING

- **Applied Generative AI & Vertex AI | Google Cloud**
Earned credentials in **Prompt Design in Vertex AI** and **Building Real World AI Applications**. Mastered LLM integration using **Gemini** and **Imagen** for scalable application development.
- **Technical Skill Development & Data Analytics | Vtricks Technologies**
Completed intensive training modules on **Data Analytics** (Python/Power BI), **Unstructured Database Design** (NoSQL), and **Core Java & SQL** development at Sambhram Institute.
- **System Design & Backend Engineering | Physics Wallah**
Completed the **System Design Workshop** and **Backend Development Course**, mastering **Microservices**, **Distributed Systems**, and **Database Design**. Separately certified in the **Ethical Hacking Program** (Kali Linux/Nmap).
- **Innovation & Design Thinking Program | COMED KARES**
Certified in user-centric problem-solving and rapid prototyping methodologies following a comprehensive 6-month innovation cohort.
- **Software Engineering Virtual Experience Programs | Forage**
Executed technical work simulations for top-tier firms:
 - **Wells Fargo & JPMorgan Chase:** Engineered RESTful APIs and optimized legacy code using **Java** and **Spring Boot**.
 - **Goldman Sachs:** Implemented password cracking defenses and cryptography protocols.
 - **Accenture & Walmart:** Applied **DevOps** pipelines (Jenkins/CI/CD), Agile methodologies, and Data Structures.

ACHIEVEMENTS

- **National Finalist - VOIS for Tech Innovation Marathon 2.0 | Edunet Foundation**
Secured a position among the **Top 75 teams nationally**, selected for an intensive 12-week mentorship program to architect innovative technical solutions under industry guidance.