GULAPALA SHIVA KUMAR

Full-Stack Developer | ML Enthusiast | CSE @ NIT Calicut

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Portfolio:- shivagulapala.me

Education

National Institute of Technology, Calicut	CGPA: 9.25 / 10 (upto 4th sem)
Bachelor of Technology in Computer Science, Minor in Cyber Physical Systems	*Aug. 2023 – May 2027*
Race Junior College, Andhra pradesh	Marks: 984 / 1000
Intermediate (Class XII)	*Aug. 2021 – May 2023*
Sarvepalli Vidya Nilayam, Andhra Pradesh	Marks: 600 / 600
Class X	*Jun. 2020 – Apr 2021*

Experience

Web Developer Intern — *Jan 2025 – Mar 2025*
National Institute of Technology, Calicut — *Calicut, India*

- Worked in a team of 7 to design and develop the official hostel management website for NIT Calicut.
- Built interactive and reusable React components to enhance user experience and streamline development.

Projects

DigiWallet | *Next.js, Node.js, Prisma ORM, PostgreSQL, Stripe, Clerk*   Live Demo GitHub

- Designed and built a full-stack digital wallet platform enabling users to manage balances, transfer funds, and view transaction history.
- Integrated **OAuth 2.0** authentication with **Clerk** (Google & GitHub), built to scale securely for **10,000+ users**.
- Enabled real-time, secure payments via **Stripe.js**, with 20+ successful transactions tested in sandbox mode.
- Implemented transactional email system using **Resend API**, increasing user engagement and trust.

Product Review Text Summarizer | *Python, HuggingFace Transformers, Gradio, Colab*   Live Demo GitHub

- Built a web-based product review summarizer using the **T5-small** transformer model from HuggingFace.
- Fine-tuned on custom review data, improving **ROUGE score by 71%** ($0.08 \rightarrow 0.137$) and summary fluency.
- Reduced inference latency and handled variable-length reviews using smart pre-processing and batch management.

Pokevision – AI Pokémon Identifier | *Next.js, GPT-4o, PostgreSQL, Auth.js, PrismaORM*   Live Demo GitHub

- Created an AI-powered platform that uses **OpenAI GPT-4o** to recognize Pokémon from user-uploaded images.
- Implemented secure login and session handling with **Auth.js**, supporting dynamic user data.
- Developed a **gamified leaderboard and Pokédex** system to increase user retention and interaction.

Achievements

- Secured **2nd place** in the **Debugger** coding competition at **Tathva 2024**, the annual technical fest of NIT Calicut.

Technical Skills

Languages: C/C++, Python, SQL, JavaScript,
Frameworks: Next.js, FastAPI, Node.js
Libraries: React.js Pandas, NumPy, Scikit-learn

Student Involvement

Member, GDSC NITC | *Jan. 2025 – Present*

- Participated in internal hackathons and 3+ peer-led knowledge-sharing sessions.
- Active member of AI, Web Development, and Competitive Programming sub-teams.

AI Club, NITC | *Oct. 2024 – Present*

- Engaged in 10+ AI research discussions and paper reading sessions on state-of-the-art topics.
- Participated in 2 club-led workshops and AI model-building exercises.