SUNIL GOPAL C V

Bengaluru, Karnataka

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EDUCATION

JSS Academy of Technical Education Bengaluru   **Dec, 2021 – May, 2025**
*Bachelor of Engineering in Computer Science - **CGPA** - **9.21/10***   *Bengaluru, India*

EXPERIENCE

HealthyKid - A brand of TraWello Healthcare ↗   **Sep, 2024 – Dec, 2024**
Software Engineer Intern   *Bengaluru, India*

- **Scaled user engagement by 23%** by designing and developing a comprehensive health scoring mobile application using React Native and optimized backend architecture
- **Improved health parameter accuracy by 20%** through advanced research, algorithm optimization, and machine learning model integration
- **Reduced database query latency by 17%** through efficient schema design and query optimization

PROJECTS

VisionTutor - Multimodal AI Tutoring Platform ↗ | Live | WebSockets, Real-time APIs   **Dec, 2024**

- **Built an innovative AI-powered tutoring system** with real-time screen monitoring, speech interpretation, and multimodal reasoning capabilities
- **Implemented dual-platform architecture** with VisionCode (code editor) and VisionMath (interactive canvas), both integrated with Gemini models for instant feedback
- **Achieved low-latency responses** through optimized WebSocket connections and efficient model switching (Gemini-2.0-exp for multimodal, Gemini-1.5-flash for transcription)

Livestock Image Classification App ↗ | Pytorch, React Native, Google Cloud, Docker   **Jan, 2025**

- **Achieved 96.3% classification accuracy** on livestock breed identification using EfficientNet-B2 architecture
- **Deployed scalable cloud infrastructure** maintaining **99.9%** uptime with Docker containerization
- **Launched under government partnership** with Agriculture Minister in Bidar

Flavor Finds – Full-Stack Recipe Application ↗ | MongoDB, Express.js, React.js, Node.js   **Apr, 2024**

- **Increased user engagement by 30%** through responsive design and seamless user experience optimization
- **Implemented enterprise-grade security** with multi-layered authentication using JWT tokens, Firebase Authentication, and Google OAuth integration
- **Built scalable backend architecture** supporting efficient recipe data management with optimized database queries and RESTful API design

RESEARCH PUBLICATIONS

- **Faux-Hate Multitask Framework for Misinformation and Hate Speech Detection in Code-Mixed Languages** ↗ - ICON 2024 Conference | **ACL Anthology**
- **Sleep Disorders and Heart Disease: A Machine Learning Exploration** ↗ - Manipal Institute of Technology | **Springer Nature**

SKILLS

C++, Python,SQL, React, Redux, Git, Deep Learning, NLP, RESTful APIs

ACHIEVEMENTS & RECOGNITION

- Top 10 finalist at Honeywell Hackathon - developed industry-applicable document crawler solution
- First Place - Best Business Pitch at GIGA Innovation Center for CropBoost agricultural innovation plan
- Selected for GirlScript Summer of Code, contributing to multiple open-source repositories
- Solved 500+ coding problems across LeetCode, CodeChef, InterviewBit with 4* C++ rating on HackerRank

CERTIFICATIONS

- Data Science with Python - **NPTEL**
- Introduction to Cloud Computing - **edX**
- The Complete Web Development BootCamp - **Udemy**