GOKULNATH V

Bangalore, India | **gokulnathvwork@gmail.com** | +91 9108107085 | [Portfolio](#) | [Linkedin](#) | [Github](#)

SUMMARY

Passionate Software Developer with a strong foundation in **Python, C++** & web development. Developed **Machine learning** models and deployed scalable applications on **AWS**, with hands-on expertise in **MySQL**, DevOps tools like **Git & Docker** to deliver reliable applications. Proven track record in developing **AI-driven** applications and delivering high-impact projects in **agile** environments. Eager to leverage my technical and analytical skills to tackle complex challenges and deliver impactful software solutions.

EDUCATION

RNS INSTITUTE OF TECHNOLOGY, Bangalore	2021 – *present*
Bachelor of Engineering in Computer Science & Data Science	CGPA : 9.41
KLE SNC PU COLLEGE, Bangalore	2019 - 2021
PUC (PCMB)	Scored 99.3 %

EXPERIENCE

Undergrad Project Lead, NOKIA   MAY, 2024 - SEPT,2024

- Led a cross-functional undergraduate team collaborating with Nokia to enhance **Self-Optimization** and **Quality of Service** for **6G** Base Stations, achieving **25%** improvement in network resource allocation using **Deep Reinforcement Learning** .
- Leveraged advanced **RL & FL** techniques to significantly enhance network efficiency for distributed network optimization, reducing latency by **30%** while ensuring data privacy across cellular base stations
- Developed novel algorithms to dynamically adjust network parameters, ensuring faster convergence and optimal QoS levels in real-time.

Web Developer Intern at PRODIGY INFOTECH   NOV, 2023 - DEC, 2023

- Developed and enhanced web applications using HTML, CSS & JavaScript, focusing on improving user experience and functionality.

TECHNICAL SKILLS

Languages : Python, C, C++, SQL , Java, R, HTML, CSS

Tools & Technologies : AWS, MySQL, Git & Github, HuggingFace, Windows, VS Code, Docker, Power BI, MS Office.

PERSONAL PROJECTS

Anti-GPT : AI multi-modal Hub | *Gen-AI, Python, LLM, NVIDIA DGX* **|** [Github](#) **|** [Live](#)

- Implemented an AI multi-modal, integrating multiple open-source models from HuggingFace for specific AI tasks like text-to-image generation, Natural Language Chat and interactive PDF querying, with a responsive Streamlit UI, ensuring seamless functionality

Sci-Mom : AI Powered Science Tutor | *Zephyr 7B, NLP, HuggingFace, DPO* **|** [Github](#) **|** [Live](#)

- Developed Sci-Mom, powered by the fine-tuned Zephyr 7B β (Mistral-7B-v0.1) using Direct Preference Optimization & AutoTrain using textbooks, offering instant science query resolution and custom question paper generation, with an user-friendly interface.

Electricity Bill Management System | *Java, MySQL, JDBC* **|** [Github](#)

- Built an Electricity bill management system, using Java & MySQL with optimized queries, offering faster data retrieval and streamlined electricity bill management through a user-friendly interface.

Car Resale Value Analyser Model | *Python, EDA, Multi-linear Regression* **|** [Github](#) **|** [Live](#)

- Deployed a data-driven machine learning model for accurate prediction of used car resale values from CarDekho's dataset, utilizing EDA for feature optimization, and deployed for real-time prediction services.

Research Work

- Presented a research paper titled **"Maximizing the Potential of Data Analytics in Sports: Ethical Considerations in Decision Making"**, exploring the intersection of data science and ethical practices in sports analytics.

CERTIFICATIONS

- **Machine Learning Specialization** by Stanford, Andrew NG
- **AWS Cloud Foundations** by Amazon AWS Academy
- **Artificial Intelligence Course** by Samsung SIC
- **Google IT Support** by Google, Coursera
- **Python Essentials** by Cisco
- **Data Analytics Professional Certificate** by Google

ACHIEVEMENTS

- Awarded '**Medal of Merit**' for academic excellence throughout Engineering.
- Awarded **Second Best 'Student Project'** among top Universities in **Nokia (NBUC)** 2024 for pioneering work in 6G network optimization.
- Represented RNSIT in the **GenAI** hackathon organized by **GLC and HP** in January 2024.
- Represented RNSIT in the **Samsung** SSIR **Hackathon** in August 2024.
- Consistently recognised '**Student of the Year**' in High School for excelling in sports, academics and leadership.