Sameer Shaik

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Career Objective

Enthusiastic **Computer Science** undergraduate at **RGUKT Ongole** with a strong foundation in software development, data science, and problem-solving. Eager to contribute technical expertise, creativity, and innovative, impactful solutions to real-world projects while continuously learning and growing in the field of technology.

Education

IIT Madras - *[Dual Degree]* *Sep 2023 – Present*
BS in Data Science and Applications - [CGPA: 8.0/10]

Rajiv Gandhi University of Knowledge Technologies, Ongole *Oct 2022 – Present*
BTech in Computer Science and Engineering - [CGPA: 8.7/10.0]

Rajiv Gandhi University of Knowledge Technologies, Ongole *Jan 2021 – Sep 2022*
Pre University Course - [CGPA: 9.3/10.0]

Internship

SWE, Artificial Intelligence Intern - *[Infosys]* *Oct 2024 - Dec 2024*

- Applied advanced **NLP techniques** using industry-standard tools and frameworks and libraries to solve real-world problems, strengthening analytical thinking and solution design under professional mentorship.
- Demonstrated strong **adaptability** and **time management** through effective remote collaboration work.
- Contributed actively to **technical discussions, code reviews, and milestone planning**, supporting informed technical decisions, improving team coordination, and ensuring smooth project execution.

Projects

SmartLot – Parking System Management Application *SmartLot*

- Built a role-based parking management web application, improving request reliability and **API latency, by implementing RESTful** Flask routes with authentication, admin controls, and **SQLAlchemy ORM.**
- Enabled conflict-free real-time parking workflows, reducing booking errors, by implementing transactional slot-allocation logic, entry/exit time tracking, and double-booking prevention through backend validation.
- Improved system observability and decision-making by developing interactive dashboards using **Jinja templates, SQLite**-backed analytics, and **chart-based visualizations** for occupancy and active sessions.
- **Tech Stacks: Python, Flask, SQLite, HTML, CSS, Bootstarp**

AI-Based Text Summarization Tool *Summarizer App*

- Built an **NLP text summarization system**, improving relevance and length consistency by **25%**, by combining extractive and transformer models (T5, BART) and LLM-based MapReduce and Refine pipelines.
- Improved model evaluation and adaptability, enabling robust performance across varied content types, by implementing **ROUGE-based evaluation metrics** and dynamic model selection logic.
- Enhanced usability and accessibility, supporting both technical and non-technical users, by designing and deploying a **Gradio-based interface** with real-time model switching and customizable summary length.
- **Tech Stacks: Python, Gemini Flash API, LangChain, Gradio, NLTK**

Technical Skills

Languages: Python, SQL, HTML, CSS

Frameworks and Libraries: Linux/Unix Commands, Flask, Numpy, Pandas, Scikit-Learn

Core Competencies: Data Structures & Algorithms (DSA), Machine Learning, DBMS, Data Science

Management and Soft Skills: Growth Mindset, Active Listening, Problem-solving, Handling priority tasks