SARATH CHANDRA BANDREDDI

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PROFESSIONAL SUMMARY

Intern-level Python Developer focused on AI and Django. Skilled in Python, AI development, and building robust web applications. Dedicated to continuous learning and staying updated with the latest industry trends and technologies. Eager to contribute to innovative software solutions and work collaboratively in a team environment.

TECH STACK

- **Languages** : Python, Java, JavaScript, C, R
- **Scripting** : Shell Scripting
- **Markup Languages** : HTML, CSS, Jinja Coding, UML
- **Operating Systems** : Linux, Windows
- **IDE Tools** : VS Code, RStudio, Pycharm
- **Libraries/Frameworks** : TensorFlow, Keras, LlamaIndex, Ollama, OpenCV, Sklearn, Numpy, Pandas, Django
- **Tools / Platforms** : Kaggle, Google-Colabs, Git, GitHub, AWS, Figma
- **Databases** : SQL, Oracle, My SQL

EDUCATION PROFILE

Course	Institution	CGPA	Duration
B.Tech-CSE (AI & ML)	VVIT-Vasireddy Venkatadri Institute of Technology	8.59	2021-2025
12th class	Narayana Junior College	9.22	2020-2021
10th class	Narayana High School	9.7	2018-2019

PROJECTS

FACE RECOGNITION VGGFace (LINK) - Individual project   Tensorflow | Keras | OpenCV | Django

Developed a face recognition application utilizing the VGGFace architecture with TensorFlow, attaining exceptional accuracy on a bespoke 29-class dataset. Launched the system through Hugging face space on an online server, showcasing advanced capabilities in artificial neural networks and computer vision. Check the live application here.

- Mastered creating custom datasets using OpenCV, organizing training and test sets, and achieving 97.86% accuracy.
- Trained deep learning models for image classification, leading to the publication of two papers in peer-reviewed journals focusing on advancements in facial recognition technology.

SCRAM (LINK) - Minor project   Gemini-pro (LLM) & Google API | Tensorflow | Keras | OpenCV | Django

Engineered a robust, secure Django-based system for comprehensive college resource and access management, incorporating advanced features such as user management, complaint registration, and a chatbot assistant. Seamlessly integrated Gemini-Pro LLM with Google API and introduced face recognition technology for enhanced attendance tracking.

- Devised robust user authentication and 2-FS password authentication, enhancing system security and reliability.
- Led the project team, developing comprehensive Django templates, seamlessly integrating custom chatbot functionalities using LLM and created a one short face recognition for attendance management system .

Document and Data Query AI Agent - Individual project   Llama3 | Ollama | LlamaIndex

Created a sophisticated AI agent for document-based Q&A and CSV data visualization, utilizing Llama3 and Ollama for cutting-edge natural language processing. Integrated Llama Indexing for efficient data retrieval and robust document parsing within an intuitive user interface.

- Combined HuggingFace embedding generation and a resilient query retry mechanism, boosting data accuracy and system reliability.
- Demonstrated deep expertise in deep learning and real-time data processing, significantly improving system performance and user experience.

CERTIFICATION

- **Python Programming** : **Kaggle, SoloLearn, HackerRank, GUVI.**
- **Machine Learning** : **Coursera, Kaggle, Microsoft, IBM**
- **Deep Learning** : **Kaggle, NPTEL, OpenCVUniversity, IBM.**
- **Google Skill Boost**(profile) : Introduction to Gen AI LP, Gemini for Google Cloud LP, Gen AI for Developers Learning Paths.
- **Django** : **Microsoft**
- **AWS** : **AWS Academy Cloud Foundations, AWS Academy Cloud Architecting**
- **NPTEL** (exam) : **Java** (ELITE), **Data Science** (ELITE + SILVER)

ACHIEVEMENTS

Secure runner up in a Python Intramural technical fest at RVR&JC college (LINK)