

Kasaraneni Karthikeya

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SKILLS SUMMARY

• Languages:	Java, Python, C, C++
• Data Science & ML Tools:	Pandas, Scikit-Learn, NumPy, Matplotlib, Seaborn, Jupyter Notebook
• Databases:	MySQL, PostgreSQL
• APIs & Backend:	Flask, FastAPI
• Version Control & Tools:	Git, GitHub
• Soft Skills:	Leadership, Team Collaboration, Analytical Thinking

PROJECTS

ChitChat – Real-Time Communication System GitHub Live	Jan' 25
- Architected a high-throughput messaging engine using WebSockets, sustaining stable delivery under concurrent load - Accelerated backend responsiveness by structuring PostgreSQL queries, improving retrieval latency by 28%. - Elevated user engagement by integrating optimized synchronization channels, achieving 99.2% message delivery accuracy Tech stack: React, FastAPI, WebSockets, PostgreSQL, Tailwind CSS, Python	
AI-Powered Voice Assistant GitHub	Sep' 24
- Crafted an intelligent voice-interaction pipeline integrating speech recognition and generation modules with 96% query interpretation precision - Refined intent-mapping logic to enable context-aware responses, reducing misclassification by 31% - Enriched conversational experience by embedding NLP routines, enhancing interaction smoothness by 42% Tech stack: Python, SpeechRecognition, NLTK, PyAudio, gTTS	
Credit Risk Classifier GitHub	Apr' 24
- Assembled a complete prediction workflow using ML algorithms, reaching 91% classification accuracy after tuning - Enhanced model reliability by engineering features and applying normalization techniques, improving score stability by 24% - Validated performance using precision–recall metrics and cross-fold evaluation to ensure robust inference quality Tech stack: scikit-learn, Pandas, NumPy, Matplotlib, Python, Excel	

TRAINING

Summer Training – C++ & Data Structures - CSE Pathashala Certificate	Jun' 25
- Mastered core problem-solving foundations by constructing algorithms using C++ and modular logic flows - Advanced structural understanding by handling arrays, pointers, linked elements, trees, and graph-based challenges - Boosted computational efficiency by refining solutions through complexity evaluation and optimized code patterns - Strengthened coding discipline through continuous practice, resulting in consistent improvement in implementation accuracy	

CERTIFICATE

• Data Science Bootcamp - GeeksforGeeks Certificate	Jul' 25
• Cloud Computing - NPTEL Certificate	Apr' 25

ACHIEVEMENT

• Solved 150+ DSA problems across platforms like LeetCode and GeeksforGeeks , enhancing algorithmic efficiency and coding fluency	Jul' 24
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EDUCATION

• Lovely Professional University <i>Bachelor of Technology - Computer Science and Engineering; CGPA: 7.6</i>	Phagwara, Punjab Aug' 23 - Present
• Sri Chaitanya Junior College <i>Intermediate; Percentage: 88.7%</i>	Vijayawada, Andhra Pradesh Apr' 21 - Mar' 23
• Ravindra Bharathi School <i>Class 10th; Percentage: 99.0%</i>	Vijayawada, Andhra Pradesh Apr' 20 - Mar' 21