

# Charan Katkam

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## PROFESSIONAL SUMMARY

AI and Machine Learning-focused Computer Science undergraduate with hands-on experience building NLP-based automation systems and deploying supervised learning models in Python. Strong foundation in model evaluation, data preprocessing, and full-stack development. Seeking AI/ML internship or entry-level roles.

## EDUCATION

<b>G. Pullaiah College of Engineering and Technology</b> <i>B.Tech in Computer Science (Artificial Intelligence)</i>	Aug 2022 – May 2026 <i>CGPA: 7.5</i>
<b>Sri Chaitanya Junior College, Hyderabad</b> <i>Pre-University (Science)</i>	Jun 2019 – Mar 2021 <i>Marks: 912/1000</i>
<b>Manasa High School, Jagtial</b> <i>Secondary School Certificate (SSLC)</i>	Jun 2018 – Mar 2019 <i>CGPA: 9.3</i>

## EXPERIENCE

<b>SmartBridge</b> <i>AI Developer Intern (Remote)</i>	Jun 2025 – Aug 2025
<ul style="list-style-type: none"><li>– Designed and implemented an SDLC automation platform using NLP-based classification models in Python.</li><li>– Built supervised learning pipelines for requirement classification and defect-prone module prediction.</li><li>– Evaluated models using accuracy and precision metrics, reducing manual QA effort by 30%.</li><li>– Integrated six modular AI components into an internal NLP chatbot to support developer workflows.</li></ul>	

## PROJECTS

<b>SmartSDLC</b> — Python, NLP, Machine Learning
<ul style="list-style-type: none"><li>– Developed an end-to-end NLP system for software requirement analysis and defect prediction as a personal project.</li><li>– Handled data preprocessing, feature extraction, and model evaluation to surface defect-prone components earlier in the SDLC.</li></ul>
<b>AJ Abhi Jewels</b> — Next.js, TypeScript, Tailwind CSS
<ul style="list-style-type: none"><li>– Built a full-stack e-commerce platform with server-side rendering and SEO optimization.</li><li>– Improved frontend performance to achieve a consistent 2-second page load time.</li></ul>
<b>Air Cursor Using Hand Gestures</b> — Python, OpenCV
<ul style="list-style-type: none"><li>– Implemented a computer vision-based hand gesture recognition system enabling hands-free cursor control.</li></ul>

## TECHNICAL SKILLS

<b>Languages:</b> Python, Java, SQL
<b>Machine Learning:</b> Scikit-learn, TensorFlow, PyTorch, Pandas, NumPy, OpenCV
<b>Web Development:</b> HTML, CSS, JavaScript, React, Next.js
<b>Developer Tools:</b> Git, GitHub, Jupyter, MySQL, VS Code

## CERTIFICATIONS

Oracle Cloud Infrastructure 2025 Certified Generative AI Professional
Generative AI with IBM – SmartBridge
Python Programming – Microsoft (SkillIndia)
Prompt Engineering with OpenAI – Columbia+
Java Programming - Codetantra
AI Data Quality Analyst – Rooman Technologies