

# Krishna Sai Rohith Vadla

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## EDUCATION

<b>Missouri University of Science and Technology</b> <i>Masters, Computer and Information Sciences</i>	Rolla, MO May 2025
<b>Indian Institute of Information Technology Dharwad</b> <i>Bachelor of Technology, Computer Science and Engineering</i>	Karnataka, India May 2023

## EXPERIENCE

<b>Student Support Specialist</b> <i>Missouri University of Science and Technology</i>	May 2024 – May 2025 Rolla, MO
<ul style="list-style-type: none"><li>Managed logistical and immigration support for 800+ international students, including visa processing, I-20 issuance, SEVIS updates, and cultural adjustment guidance, achieving 99% satisfaction and ensuring compliance and data accuracy.</li><li>Provided IT and helpdesk support across Windows Server 2019, Microsoft 365, Hyper-V, VMware, Veeam, printers, network switches, and VOIP, resolving 100+ technical issues monthly and enhancing system uptime and user satisfaction.</li></ul>	
<b>Undergraduate Research Assistant</b> <i>Indian Institute of Information Technology Dharwad</i>	June 2022 – May 2023 Karnataka, India
<ul style="list-style-type: none"><li>Developed cross-lingual speech-to-speech neural networks using Python, MATLAB, VAE/GAN architectures, and WaveNet vocoders, improving model intelligibility and naturalness by 30%.</li><li>Engineered bilingual corpora, implemented multi-scale reconstruction loss functions, and optimized models, reducing generator loss by 23% while validating performance with native speakers.</li></ul>	

## PROJECTS

<b>Personalized News Summarizer with Sentiment Analysis</b>   <i>Live Demo</i>	June 2025 – August 2025
<ul style="list-style-type: none"><li>Built an end-to-end NLP pipeline using HuggingFace and SQLite to fetch, summarize, and analyze sentiment for 1000+ news articles, cutting reading time by 70%.</li><li>Developed a Streamlit dashboard with Sentence-BERT-based personalized recommendations and sentiment analytics, boosting content relevance by 60%.</li></ul>	
<b>Customer Churn Prediction System</b>   <i>Live Demo</i>	Jan 2024 – March 2024
<ul style="list-style-type: none"><li>Developed an end-to-end churn prediction system using the Telco dataset (7k records), applying data cleaning, feature engineering, and one-hot encoding to build a robust Random Forest model (ROC-AUC &gt; 0.80).</li><li>Deployed an interactive Streamlit dashboard with Plotly analytics and real-time predictions, enabling business users to visualize churn factors and assess customer retention risk instantly.</li></ul>	
<b>DQN CartPole Reinforcement Learning Bot</b>   <i>Live Demo</i>	May 2023 – Sep. 2023
<ul style="list-style-type: none"><li>Built a Deep Q-Network (DQN) in PyTorch with experience replay and epsilon-greedy policy to autonomously solve CartPole-v1, reaching the 500-step performance threshold with 40% faster convergence.</li><li>Visualized training progress through reward trend plots and animated performance simulations, enhancing model interpretability and presentation for technical audiences.</li></ul>	

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS  
**Frameworks:** React, Node.js, Flask, Rest APIs, Streamlit Cloud  
**Developer Tools:** Git, Docker, Google Cloud Platform, VS Code, MATLAB, Overleaf/LaTeX, Slack  
**Libraries:** NumPy, pandas, PyTorch, Transformers, scikit-learn, SQLite, matplotlib, Plotly, Streamlit

## CERTIFICATIONS

<b>Python Essentials 1 &amp; 2</b> <i>Cisco</i>	September 2025
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