

ABHINAY KOTLA

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SUMMARY

Passionate Computer Science graduate specializing in AI and machine learning, with notable experience in developing solutions like emotion-aware chatbots and image recognition systems. Proficient in TensorFlow, PyTorch, and NLP frameworks, with skills in model development and scalable AI implementation. Proven track record in enhancing AI applications, optimizing machine learning models, and engaging in research-driven innovation. Seeking opportunities to leverage advanced AI techniques for impactful data science projects, aligned with generative and real-time AI applications and solutions.

SKILLS

Programming	Python (Advanced), C++, Java, Scala, R, SQL, Bash
Machine Learning	Deep Learning, Generative AI, NLP, Transformer Models, GANs, Transfer Learning, AI/ML Applications, Statistical Analysis, Edge Detection
Frameworks/Libraries	PyTorch, TensorFlow, Keras, scikit-learn, OpenCV, Pandas, Spark, Matplotlib
Big Data and Cloud	Apache Spark, Hadoop, Kubernetes, AWS, Google Cloud, Azure
AI Deployment and DevOps	MLOps, Model Deployment, Docker, GitHub Actions

Masters in Computer Science **Aug 2025**
The University of Texas at Arlington
GPA: 4.0/4.0

BE in Computer Science **April 2023**
Gandhi Institute of Technology and Management, Hyd
CGPA: 8.47

Certifications

- Neural Networks and Deep Learning by DeepLearning.AI
- Robotic Process Automation (RPA)
- IBM Big Data with Spark and Hadoop
- Wordcloud Using NLP and TF-IDF
- Google Technical Support Fundamentals

[View More on LinkedIn](#) ←

WORK EXPERIENCE

- UT Arlington Office of Information Technology** **Aug 2024 - Present**
Arlington, TX
- **Graduate Research Assistant – IT for Campus Operations** **Sep 2024 – Present**
 - Pioneered research initiatives in AI-driven technical support chatbot, developing scalable solutions for campus-wide IT operations and workflow enhancement
 - **Graduate Assistant - OIT Tech Support** **Aug 2024 - Sep 2024**
 - Developed and maintained comprehensive IT support documentation, reducing average resolution time for common issues across campus facilities
 - Supported IT systems for University center and campus housing departments impacting 5,000+ users.
- Freelance Web Developer, Saintechinc** **Feb 2023 - Nov 2023**
- Designed, developed, and deployed a fully responsive website for Saintechinc using React, Next.js, and Node.js.
 - Hosted and managed the website, implementing security best practices and ensuring high availability.
- Internships**
- **SmartKnowers** **Jun 2022 - Jul 2022**
 - Created AI/ML course content and enhanced student engagement through research on latest trends.
 - **1StopAI** **Nov 2021 - Jan 2022**
 - Led voice-based ML project for gender and mood detection, implementing real-time analysis features that enhanced call center response accuracy.
- Social Media Manager and Creator** **May 2021 - Dec 2023**
- **Content Manager, SaharaYT** Managed content strategy and production for a 325k-subscriber YouTube channel; improved video retention by 20%.

- **Owner/Creator, NukeYT** Grew a YouTube channel to 1.7k subscribers, focusing on e-Sports, tech reviews, and tutorials; increased view duration by 50%; collaborated on sponsorships.

CLUB ACTIVITIES

Mentor, SCAI Club, UTA

June 2024 - Present

- Mentor students in machine learning fundamentals and guide them through hands-on projects.
- Lead a project series focused on developing a cryptocurrency trend predictor for various time frames and assets, with potential applications in stock market analysis.

Head of Coding and Gaming Division, GITAM COGAAN

Jul 2020 - Jan 2023

- Led a team of 15 to organize coding competitions and gaming events, increasing participation.
- Conducted workshops and boot camps to enhance technical skills and collaborated with university departments to host interdepartmental events.

PROJECTS

Edge- and Color-Aware Adversarial Image Inpainting ← Python, GANs, Deep Learning, Computer Vision
Developed an inpainting framework that integrates edge and color guidance for realistic image reconstruction. Utilized a dual-GAN architecture to generate missing edges and enhance color continuity. Evaluated the model on CelebA and Places2 datasets for facial and scene inpainting.

Emotionally Intelligent Chatbot ← Python, NLP, Hugging Face Transformers, TensorFlow/PyTorch
Built a chatbot capable of recognizing and responding to user emotions using NLP and deep learning. Integrated emotion detection and multimodal interaction (voice and facial recognition) for improved user engagement.

News Summarization Using T5 Transformer ← Python, NLP, T5 Transformer
Developed a summarization model using T5 Transformer to generate concise summaries from lengthy news articles, improving readability.

Road Surface Analysis and Classification ← Python, scikit-learn, Qt Designer
Designed a machine learning model with a GUI to classify road quality based on surface features and maintenance factors. Trained on 3,500 samples to predict road conditions for effective maintenance planning.

Gender Recognition based on Voice ← Python, scikit-learn
Developed a machine learning model trained on 32,000 samples to predict the gender of the speaker using 14 features of the voice. Integrated the model into a call center system to help representatives anticipate the caller mood.

[View More Projects on GitHub](#) ←

INTERESTS AND FUTURE PLANS

Passionate about **AI research**, particularly in **Deep Learning, NLP, and real-time AI applications** for **autonomous systems** and **robotics**.

Exploring **Computer Vision** and **Generative AI**, focusing on **Vision Transformers (ViTs)** and **multimodal AI** for real-world problem-solving.

Interested in **MLOps** and **Scalable AI Deployment**, optimizing workflows with **Kubernetes, Docker**, and **cloud services** like **AWS** and **GCP**.

Aspiring to contribute to **cutting-edge AI research**, particularly in **autonomous systems, generative AI, and real-time ML applications**.