

ABHINAY KOTLA

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[LinkedIn](#) [GitHub](#) [Portfolio](#)

SUMMARY

Passionate Computer Science graduate student with a strong foundation in machine learning, deep learning, and NLP. Proven experience in emotion-aware chatbots, image inpainting, and real-time summarization systems. Proficient in TensorFlow, PyTorch, and cloud-scale deployment tools like Docker and Kubernetes. Known for developing lightweight, production-ready AI models and collaborating in research-focused innovation. Actively seeking AI/ML/Data Science internships for 2025 to contribute to generative and autonomous AI solutions.

SKILLS

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|------------------|---|
| Programming | Python (Advanced), C++, Java, Scala, R, SQL, Bash |
| ML & AI | Deep Learning, Generative AI, LLMs, Transfer Learning, NLP, GANs, Feature Engineering |
| Computer Vision | CNNs, Vision Transformers (ViTs), Image Inpainting, Pose Estimation |
| Frameworks | PyTorch, TensorFlow, Keras, scikit-learn, OpenCV, Pandas, Spark |
| Cloud & Big Data | AWS, Google Cloud, Azure, Apache Spark, Hadoop, Kubernetes |
| DevOps & MLOps | Docker, GitHub Actions, CI/CD, Model Serving, Terraform, Model Monitoring |
| Data Engineering | ETL Pipelines, Data Wrangling, Streaming Data (Kafka), SQL Optimization |
| Accessibility | WCAG, Assistive Tech, Inclusive AI Design, Digital Accessibility |

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|---|-------------------|--|
| Masters in Computer Science The University of Texas at Arlington GPA: 4.0/4.0 | Dec 2025 | Certifications • Neural Networks and Deep Learning (DeepLearning.AI) • Robotic Process Automation (RPA) • IBM Big Data with Spark and Hadoop • Wordcloud Using NLP and TF-IDF • Google Technical Support Fundamentals More Certifications ← |
| BE in Computer Science Gandhi Institute of Technology and Management, Hyd CGPA: 8.47 | April 2023 | |

WORK EXPERIENCE

| | |
|---|---------------------|
| UT Arlington Office of Information Technology <i>Arlington, TX</i> | Aug 2024 - Present |
| • Graduate Research Assistant – IT for Campus Operations • Developed an AI-powered tech support chatbot, reducing average ticket handling time by 18% and improving user query resolution accuracy. | Sep 2024 – Present |
| • Graduate Assistant - OIT Tech Support • Maintained and improved IT documentation leading to 25% fewer escalated support tickets. Supported systems used by 5,000+ students and staff. | Aug 2024 - Sep 2024 |
| Freelance Web Developer, Saintechinc | Feb 2023 - Nov 2023 |
| • Delivered a secure, full-stack website using React and Node.js with 99.9% uptime and optimized SEO performance. | |
| Internships | |
| • SmartKnowers • Developed course content on ML workflows and deployment practices; improved student engagement metrics by 30%. | Jun 2022 - Jul 2022 |
| • 1StopAI • Built a real-time mood and gender classification system for customer support calls, enhancing service personalization and reducing handling time. | Nov 2021 - Jan 2022 |
| Social Media Manager and Creator | May 2021 - Dec 2023 |
| • Content Manager, SaharaYT Grew a YouTube channel to 325k subscribers; improved average view retention by 20% using ML-based analytics. | |
| • Owner/Creator, NukeYT Created niche content with a 50% higher-than-average watch time; coordinated sponsorship deals and boosted channel discovery. | |

CLUB ACTIVITIES

Mentor, SCAI Club, UTA

June 2024 - Present

- Led workshops on ML foundations; supervised a cryptocurrency trend prediction project with real-time inference models.

Head of Coding and Gaming Division, GITAM COGAAN

Jul 2020 - Jan 2023

- Organized 10+ technical events, driving a 2x increase in participation. Delivered hands-on training in coding and gaming AI.

PROJECTS

Edge- and Color-Aware Adversarial Image Inpainting ← Python, GANs, Deep Learning, Computer Vision
Reduced perceptual loss by 7% using dual-GAN architecture guided by edge and color priors; validated on CelebA and Places2 datasets.

Efficient CV Models with Knowledge Distillation ← Python, CNNs, Quantization, PyTorch
Built a 6.5MB student model from a 669MB teacher while preserving 97% accuracy on the Intel image dataset using pruning and FP8 training.

News Summarization using T5 Transformer ← Python, T5, NLP, Transformers
Achieved ROUGE-1: 0.532 and cosine similarity of 0.80; used for generating concise and semantically rich summaries of news articles.

TuneParams.ai Community Platform ← React, Firebase, Firestore, CSS, Auth, Web Dev
Developed a fully functional web-based learning platform and forums for AI and ML discussions. Implemented role-based authentication, real-time Firestore backend, public read access, post-moderation, and a responsive UI. Integrated admin dashboard to manage users, payments, and forums. Deployed with modular services and reusable components.

Road Surface Classification Tool ← Python, scikit-learn, Qt Designer
Built a GUI-based tool to classify road surface types and defects, enabling predictive maintenance with 85% classification accuracy.

More Projects on GitHub ←

INTERESTS AND FUTURE PLANS

Deeply interested in **autonomous systems, robotics, and real-time ML**.

Researching **ViTs, multimodal fusion**, and **generative AI** for applications in vision and language.

Exploring **scalable ML deployment**, model serving, and monitoring via **Kubernetes** and **cloud-native** workflows.

Long-term goal: contribute to **open-source AI research** and advance **responsible, accessible AI**.