

Nyamtulla Shaik

Lawrence, Kansas | nyam@ku.edu | linkedin.com/in/nyamtulla/ | github.com/Nyamtulla

Education

Doctor of Philosophy (PhD) in Computer Science	Expected May 2027
The University of Kansas (KU), <i>Lawrence, KS, USA</i>	GPA: 4.0
<ul style="list-style-type: none">Research Focus: Adversarial Machine Learning in Autonomous SystemsRecipient of the Paul F. Huebner Memorial Award for teaching excellence potential.	
Master of Science (MS) in Computer Science (Graduated with Honors)	May 2025
The University of Kansas (KU), <i>Lawrence, KS, USA</i>	GPA: 3.9
<ul style="list-style-type: none">Specialized coursework: Machine Learning, Computer Vision, Cybersecurity	
Bachelor of Technology (BTech) in Computer Science and Engineering	Sep 2020
Jawaharlal Nehru Technological University (JNTU), <i>Kakinada, India</i>	GPA: 3.4
<ul style="list-style-type: none">Focus: Software Development, Programming Languages, Operating systems	

Skills

ML & AI: LLMs, NLP, CNN, Computer Vision, Vision Transformers, Autoencoders, TensorFlow Lite, OpenCV, Scikit-learn, PyTorch, Edge Impulse, Adversarial ML

Data Analytics & BI: TIBCO Spotfire, Alteryx, MSBI, Power BI, Tableau, Informatica, Excel (Advanced), Matplotlib, Seaborn

Programming Languages: Python (NumPy, Pandas, OpenCV, TensorFlow, PyTorch), R, C, C++, Java, Unix Scripting, JavaScript, HTML/CSS, Bash scripting.

Databases: SQL, MySQL, MongoDB, PostgreSQL, SQLite

Web Development/Deployment: Flask, REST API, Docker, Git/GitHub, Nginx, Heroku, Postman

Cybersecurity: Foundations of Cybersecurity, AI Security, Adversarial Attacks/Defenses, Vulnerability Assessment, Threat Modeling

Operating Systems: Windows, Linux (Ubuntu), IOS

Academic and Professional Work Experience

Data Science Research Assistant, KSDS, KS	June 2025 – Present
<ul style="list-style-type: none">Responsible for developing a mobile and web app for the Kansas Department of Commerce for analyzing the cost of living in 105 counties of Kansas.Using computer vision OCR algorithms to extract the purchased items from uploaded receipts, storing them in a structured format for analysis and dashboards	
Graduate Teaching Assistant, University of Kansas, KS	Feb 2023 – May 2025
<ul style="list-style-type: none">Taught, assisted, and graded for Computer Vision, Software Engineering, Programming II, and Unit Operations Lab, supporting 170+ students and improving overall performance by 15–20%.Designed lab slides/materials, provided feedback, and led one-on-one and group mentorships, boosting project success by 20%.Developed LabView distillation control system, increasing lab efficiency by 30% and supporting faculty with grading and IT needs.Led discussions and clarified complex concepts, resulting in a 15% improvement in student outcomes.	
Data Analyst Intern, Starlight Theatre, Kansas City, MO	Apr 2023 – Jul 2023
<ul style="list-style-type: none">Managed end-to-end data-driven projects, impacting decision-making for 5+ departments.Designed dynamic dashboards, improving access to strategic insights by 40% and reporting efficiency by 30%.Delivered tailored data solutions, reducing manual analysis workload by 25%.	
Student IT Technician, University of Kansas, KS	Aug 2022 – Jan 2023
<ul style="list-style-type: none">Resolved over 50 ServiceNow tickets, achieving a 95% first-call resolution rate and minimizing staff downtime.Configured and imaged 30+ PCs using Active Directory; improved customer satisfaction by 20%.	
Data Analyst, Infosys Ltd, India	Nov 2020 – Jul 2022
<ul style="list-style-type: none">Developed 5+ interactive dashboards/reports using TIBCO Spotfire and Power BI, reducing reporting time by 35%.Automated ETL workflows with Alteryx, processing 100,000+ records and reducing prep time by 40%.	

- Supported analytics for \$1M project with MSBI, SQL, PL/SQL, Python, Power BI, Tableau, Informatica.
 - Collaborated on actionable insights, increasing operational efficiency by 15%.
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Research Experience

PhD Research – Adversarial Machine Learning & AI Security

- Researching adversarial ML/AI security vulnerabilities.
- Experimenting with new Machine unlearning methods to erase learned data from deep learning models

Master's Thesis – Action Recognition for Autism Support

- Developed a custom 1D-CNN to detect harmful stimming behaviors (head banging, arm flapping) in autistic children from video, achieving 93.93% accuracy.
- Used robust data extraction and processing techniques for preparing data for DL models
- Explored gait-based biometric authentication for surveillance via machine learning.

Undergraduate Research – Data Mining for Lung Cancer Prediction

- Conducted comparative analysis of supervised/unsupervised mining for lung cancer prediction.
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Academic and Personal Projects

Face Recognition Embedded ML System (*XIAO ESP32/ESP32 Sense*) Individual

- Developed an embedded face recognition system using XIAO ESP32 modules for real-time identity verification.
- Implemented visual wake word detection, face cropping, and model-based recognition; programmed entirely in C++.
- Trained and deployed custom models with Edge Impulse, optimizing for embedded hardware.

AI Resume Transformer (*ChatGPT API, Flask*) Team Project

- Built an AI tool to customize resumes/cover letters using GPT-3.5 Turbo based on job descriptions.
- Integrated Flask REST API and designed front-end in HTML, JavaScript, and CSS.

Greenland Ice Glacier Analysis (*Data Analysis, Python, matplotlib*) Team Project

- Analyzed glacier data to predict melting timelines using statistical models and Python visualizations.

Class Adjustment System (*Website, MySQL, Apache*) Team Lead

- Led dynamic web system project for MySQL-based class/faculty assignment and schedule adjustment.

Mini IPL Cricket Game (*Java script*) Personal

- Developed and launched an interactive cricket simulation using JavaScript, HTML, and CSS (hosted on GitHub Pages).
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Accomplishments

KU EECS Honors Award (May 2025): Received Honors for my masters thesis defense on autism stimming detection.

Paul F. Huebner Memorial Award (2024): Outstanding performance and contributions as a GTA, University of Kansas.

Google Foundations of Cyber Security: Completed comprehensive course, focused on threat mitigation and security best practices.

Hackathons:

- HackKU (2023, 2024) – Tech solutions in university-led hackathons.
- Hack Midwest (2023) – Collaborative software challenges.
- Smart India Hackathon (2019) – National-level participation.

Runner-Up: College Innovation Challenge Hackathon by Google, for impactful creative solutions.