

# Ibrahim Malik

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## EDUCATION

**MS Computer Science (Machine Learning/Artificial Intelligence/Cyber Security)** – Fall 2026

**BS Computer Science** (Dean's List – Honors – GPA 3.95 – Class of 2026)

University of Memphis

**High School Diploma** (Valedictorian – Honors – GPA 3.97 – Class of 2024)

Pleasant View School

**Course Work:** Software Design, Data Mining, Machine Learning, Network/Info Assurance, Probability/Statistics, Linear Algebra, OOP, Software Engineering, Databases, Algorithms, Distributed Systems, Discrete, C/C++

**Awards:** Ned McWherter Scholarship Winner, Cecil C. Humphreys Presidential Scholar, Rising Leaders Scholar, Reed C. Baskin Legacy Scholar, Peter I Neathery Scholar

## TECHNICAL SKILLS

**Programming Languages:** Python, Cypher, SQL, JavaScript, Ruby, C, C++ R, HTML, CSS

**Tools:** Git, GitHub, Conda, Jupyter, PyTorch, Visual Studio Code, R studio, Vim, Sublime Text, HPC

## Professional Experience

### Machine Learning Research Intern – AI Brain Tumor Classification

*St. Jude Children's Hospital, Memphis, TN*

Sep 2025 – Present

- Building ML and deep learning models (SVM, Random Forest, CNNs, 3D CNNs) to classify pediatric posterior fossa tumors using pre-surgical MRI.
- Data processing and labeling MRI datasets and collaborating with clinicians on tumor segmentation and evaluation.
- Optimizing and fine-tuning models and analytical result analysis.

### Full Stack Development Intern

*AutoZone, Memphis, TN*

June 2025 – Aug 2025

- Developing a store intelligence portal to monitor real-time device status and visualize in-store network topology. AI API integrations using GraphRAG for natural language generation for users.
- Working with a graph database (using Cypher), JavaScript, and Node.js to build full-stack features.
- Collaborating in an Agile environment using GitLab, GitHub, and Jira for version control and sprint planning.

### Research Undergraduate Assistant – Neuro-Symbolic AI

*University of Memphis, Dr. Deepak Venugopal*

May 2025 – Present

- Conducting research on Neuro-Symbolic AI, focusing on evaluating and interpreting the reasoning capabilities of large language models (LLMs) using the GSM8K dataset.
- Aiming to analyze model outputs to gain insights into the internal mechanisms of LLMs and their performance on complex arithmetic and logical reasoning tasks.

## PROJECTS

**Student Performance Prediction:** Used GCN and FeedForwardNN to predict student success from educational datasets, focusing on feature extraction to conduct social research.

**Python Image Convolution and Filtering:** Used OpenCV and NumPy Python libraries to create a program for image processing techniques like sharpening, blurring, and edge detection with custom kernels.

**Film Festival Management System:** Built a Ruby on Rails web app with PostgreSQL featuring real-time client-side search/filter using JavaScript and a clean, user-friendly interface.

## LEADERSHIP/EXTRA CURRICULARS:

**Owner, Ibrahim's RideRevival**

Aug 2020 – Present

Operate a bike restoration business, empowering Memphians through repair and restoration services.

**Instructor, Iqra Education Center**

August 2023 – May 2025

Oversee and teach students, create student and staff tracking databases.

**Assistant Patrol Leader, Boy Scouts**

Jan 2020 – May 2024

Organized Events, conservation projects, leadership and emergency preparedness courses, and led younger scouts.