Syed Ali Haider

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Education

New York University Aug '21 – May '25
Bachelors of Science in Computer Science (Artifical Intelligence)
Relevant Coursework: Data Structures, Algorithms, Machine Learning, Computer Vision, Big Data Science, Quantum Computing, Computer System Organization, Operating Systems, Prob & Stats for Econ, Calc I & II, Discrete Math

Experience

Khudi Ventures — *Research Engineer Intern (RecSys)* Jul '24 – Sep '24
- Developed a novel matching algorithm for a dating application, increasing user engagement by 30% through enhanced profile vectorization and preference matching via attention models and social network graphs.
- Implemented a machine learning model for personalized recommendations, enhancing accuracy by 25% through user feedback analysis and data acquisition of over 1M user profiles.

Reckitt Benckiser —MENA IT&D, *Data Science Intern* May '24 – Jul '24
- Developed predictive pricing and sales forecasting models with 97.93% accuracy, dashboards, and AutoML solutions for ETL processes and ML model building using TensorFlow, Power BI, and Azure to support data-driven decision-making.

NYU Stern —*Research Assistant (Prof. Divya Singhvi)* Jan '24 – May '24
- Developed a "nudge" recommendation system utilizing reinforcement learning and clustering techniques on panel data to target specific panelists, resulting in a measurable reduction in churn rates during a longitudinal study.

Listen.Dev —*Software Engineer Intern* Jun '23 – Sep '23
- Developed a live cybersecurity monitor analyzing real-time attacks from RSS feeds, documented 20k+ supply chain attacks, and applied MySQL, Flask, GPT Turbo, LangChain, and web scrapers to streamline generation of attack summaries.

NYU Interactive Media Lab — *Research Assistant (Prof. Nicole Wang)* Jan '23 – May '23
- Designed and deployed an LLM-based Gen-AI grader to automate and improve grading accuracy for college professors, utilizing MongoDB, Python, Flask, HPC, and GPT-4 Turbo.

Jika.io —*Data Engineer Intern* Aug '22 – Dec '22
- Orchestrated a MySQL to Google BigQuery pipeline using DataGrip, reducing processing time by 30% and enabling real-time reporting, while contributing to a migration project; implemented a scalable, cost-efficient ETL pipeline.

Research Projects

Kiwi+ @ *Multimodal Adaptive Personalization Systems Lab* Oct '24 – Present
Supervisor — Prof. Hongyi Wen
- Developing Kiwi+, a context-aware educational chatbot for CS education that leverages RAG, KR, and KL to provide multimodal, personalized learning, aiming to reduce model fine-tuning and enhance adaptability in STEM education.

MAE-BERT VQA @ *Dean's Undergraduate Research Fund* May '24 – Aug '24
Supervisor — Prof. Li Guo
- Fine-tuned the BLIP-VQA model with LoRA layers and developed a custom VQA model using a MAE ViT and pre-trained BERT, incorporating cross-attention for image captioning and VQA tasks, resulting in performance improvements in VQA.

Syncify RecSys @ *AI and Predictive Analytics Lab* Apr '24 – May '24
Supervisor — Prof. Anasse Bari
- Developed Syncify (model & API), a mood-based music recommendation system using Spotify and Musixmatch data.

MTR Steer @ *Computer Vision Final Project* Mar '24 – May '24
Supervisor — Prof. Jean Ponce
- Developed a Transformer-based model for predicting steering angles in autonomous vehicles, achieving 95.5% accuracy.

Awards & Honors

Dean's Undergraduate Research Fund ($1500) | *New York University*	May '24
Dean's List for Academic Year | *New York University*	'21 – '23
Research Assistant Honorary Grant ($1500) | *New York University*	Dec '23
Scholar's Full Ride Award, Yale Young Global Scholars ($2000) | *Yale University*	Jun '19

Leadership

Lead CS Course Assistant | *NYU CS Department* | Courses: Data Structures, ICS, ICP	Aug '22 – Present
Tech Lead Dev Team | *Fintech & Blockchain Club at NYU*	Jan '24 – May '24
Tech Lead & Mentor | *Tech@nyu Club*	Aug '23 – Dec '23
Director Tech Consultancy | *TAMID Group at NYU*	Aug '23 – Dec '23
Sectary General | *New York University Model United Nations VI*	Jan '23 – Mar '23

Skills

Programming Languages: Python, Java, C, C++, SQL, JavaScript, HTML/CSS
Technologies & Tools: PyTorch, TensorFlow, Flask, React, Django, Hadoop, LangChain, GPT API, RapidMiner, Azure, PowerBI, Tableau, OpenCV, NumPy, Pandas, PySpark, Matplotlib, D3.js, Linux, Git, Figma, BigQuery Markdown, LaTeX