

KHUSHANG ZAVERI

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EDUCATION

JOHNS HOPKINS UNIVERSITY | Baltimore, MD

Master of Science in Engineering in Data Science | Expected: May 2026

Relevant courses Research and Design in Applied Mathematics: Data Mining, Algorithms in Data Science, Machine Translation

MAHINDRA UNIVERSITY | Hyderabad, India | CGPA: 3.36/4

Bachelor of Technology in Computation & Mathematics | June 2024

Relevant courses: Deep Learning, Mathematics in Machine Learning, Design and Analysis of Algorithms, Probability and Statistics

Graduated 3rd in class

Received 2 merit-based scholarship for academic excellence

SKILLS

- **Programming Languages:** Python, SQL, R, C, HTML, MATLAB, Linux
- **Data Handling:** NumPy, Pandas, OS, Scikit-learn, SciPy, NLTK, Requests, Matplotlib, Seaborn, BeautifulSoup, Requests
- **Model Building and Training:** PyTorch, Transformer, Wandb, SageMaker, SpaCy, Flair, TensorFlow, OpenCV
- **Competencies:** Machine Learning, Generative AI, Feature Engineering, Deep Learning, Web Scrapping, Data Visualization
- **Software:** Git, LIWC, Docker, Jira, Microsoft Excel, Microsoft Word, Microsoft PowerPoint
- **Soft Skills:** Communication, Leadership, Time Management, Problem Solving, Innovation

EXPERIENCE

Student Researcher | Department of Applied Mathematics and Statistics, Johns Hopkins University | September 2024 - Present

- Developed deep learning models to enhance minimally invasive surgery techniques in laparoscopic surgery
- Detected and classified surgical tools using Faster R-CNN and Vision Transformers

AI Intern | Veltris | Hyderabad, India | January 2024 - July 2024

- Engineered a Biomedical NER model, fine-tuned BERT and Roberta, achieved **80% accuracy** on biomedical databases
- Leveraged PyTorch to build CNN model from scratch to classify images into streets, forests, and mountains with **90% accuracy**
- Implemented model to summarize latest news on any topic, using BeautifulSoup, Requests, OS, Transformers
- Gained expertise in NLP, Ensemble Models, Feature extraction, Data cleaning through training program

AI Intern | KPMG | Mumbai, India | June 2023 - August 2023

- Devised application with Language Models such as Flan-T5, GEC-T5_small, and falcon-7b-instruct to help auditors get started with relevant questions using Python, Transformers
- Researched and worked on impact of BASEL IV norms on Indian banks, evaluated climate risk aspect for flood-prone areas, and devised safe investment solutions accordingly

Research Assistant | University of Pennsylvania | Finding Social Norms | January 2023 - January 2024

- **Created largest known multi-cultural dataset** of self-conscious emotions from 5435 movie transcripts
- Applied libraries such as BeautifulSoup, Requests, and OS to extract vast amounts of data from various websites using Python
- Processed and cleaned data, applied LDA, LIWC, prompt engineer to uncover 10k social norms
- Presented abstract of research paper in field of Natural Language Processing at **IC2S2**, archived in **ACL**

COURSES AND CERTIFICATIONS

- Deep Neural Network with PyTorch, IBM, Learning from Coursera, March 2024
- LangChain Chat with Your Data Project, DeepLearning.AI, from Coursera, Jan 2024
- Audited Generative AI with Large Language Model course offered by DeepLearning.AI and Amazon Web Service Nov 2023
- Introduction to Large Language Model - Google Cloud from Coursera, July 2023
- Machine Learning Specialization: 3 course specialization: Supervised Machine Learning, Advanced Algorithms in Machine Learning and Unsupervised Learning, offered by Stanford and DeepLearning.AI, from Coursera, August 2022

EXTRACURRICULAR ACTIVITIES

- Led and hosted treks for 200+ students as Adventure Club Head of Events, Mahindra University, 2022
- Organized and coordinated events for Math Club for 1000+ students, Mahindra University, 2022
- Secured 2nd place in university marathon competition, Mahindra University, 2022
- Volunteered at TATA Memorial Hospital, streamlining patient registration process to enhance patient experience, 2018
- Volunteered at Mumbai Mobile Creche, taught Mathematics to underprivileged students in an innovative way, 2018