Yashas Acharya

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EDUCATION

University of Minnesota — Minneapolis, MN
Bachelor of Science in Computer Science, Minor in Management — *Sep. 2021 – May 2025*
- Relevant Coursework: Applied Machine Learning, Operating Systems, Machine Architecture, Algorithms, Data Structures, Probability, Statistics

EXPERIENCE

Undergraduate Teaching Assistant — Sep. 2023 – Present
University of Minnesota — *Minneapolis, MN*
- Overseeing and instructing a diverse cohort of 40 student and conducting comprehensive lab sessions, providing hands-on guidance, and fostering a dynamic learning environment to facilitate a solid grasp of programming fundamentals.

Data Analytics Intern — July 2022 – Aug. 2022
Deloitte — *Abu Dhabi, United Arab Emirates*
- Visualized client data to provide meaningful insights through dashboards using Power BI, Tableau and Python (NumPy and Pandas).
- Summarized company data to generate performance reports using Microsoft Excel and Visual Basic.
- Trained junior interns on Visualization Fundamentals and Power BI.
- DSN Certified Analytics Software Developer, DSN Certified Python Analyst, DSN Design Thinking and Data Visualization Certified

Data Analytics Intern — May 2021 – Aug. 2021
Deloitte — *Abu Dhabi, United Arab Emirates*
- Tadarab Program Selectee gaining invaluable insights into Deloitte's audit and assurance practices, broadening my understanding of industry-leading methodologies and technology.
- Detected data corruptions and inaccuracies from clients' raw data using Audit Command Language and Microsoft Excel.

PROJECTS

VerbalVoyant | *Python, HuggingFace Transformer, Scikit-learn, PyTorch Lightning, Inference API*
- Developed a machine learning model to predict the character from a show based on given dialogue.
- Utilized HuggingFace Transformer and Inference API to infer emotions from dialogues, enhancing the dataset.
- Implemented KNN classifier and neural network classifier using Scikit-learn and Pytorch for character prediction.

AspirantAI | *Python, HuggingFace Transformers, Llama 2, CodeBERT*
- Attempted to fine-tuned Llama using course content from CSCI 1133 : Introduction to Computing and Programming Concepts class to perform better at answering teaching assistant queries from students.
- Collaborated on data collection, preprocessing, and model evaluation, ensuring optimal model performance and relevance to the course content.

LearnAIbility | *Python, OpenAI API*
- Developed a tool to enhance the learning experience for individuals with learning challenges through AI driven learning content adaptation and feedback mechanisms.

NKript | *Java*
- Developed a Java application that implements ancient encryption techniques to encrypt text.

Performance Evaluation of AES, DES, and RSA in Video Encryption | *Research Project*
- Compared breakability, speed and resource usage of algorithms AES, DES and RSA in video encryption.

Linking Calculus and Cryptography | *Research Project*
- Created an encryption algorithm leveraging derivatives, and used backtracking to assess its breakability.

TECHNICAL SKILLS

Languages: Python, Java, C, SQL (MySQL), HTML/CSS, x86 Assembly, Visual Basic
Frameworks and Libraries: Pytorch Lightning, HuggingFace Transformers, pandas, NumPy, Seaborn, Matplotlib
Developer Tools: Git, GPT4, Amazon SageMaker, Power BI, Tableau, VS Code, IntelliJ, Eclipse