Daniel Ravi

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EDUCATION

- **Pennsylvania State University** — Pennsylvania, USA
  Master of Science - Computer Science; GPA: 3.56 — *Aug 2023 - May 2025*
- **Andhra University College of Engineering** — Vishakapatnam, India
  Bachelor of Technology - Information Technology; GPA: 3.33 — *Sept 2019 - Apr 2023*

EXPERIENCE

- **Teaching Assistant, Penn State University** — Jan 2024 - Present
  - Facilitated learning sessions as teaching assistant for four major programming courses: Design and Analysis of Algorithms(DAA), Adv C++,Computer Security and Statistics courses.
- **Quantela Inc.** — Hyderabad, India
  Data Science Intern — *Feb 2023 - Apr 2023*
  - Coordinated with Data Science Team in cross-functional collaboration through daily meetings, integrating NLP techniques, gaining hands-on experience with text classification and sentiment analysis models.
  - Leveraged exposure to diverse NLP methodologies and Solana-driven data extraction processes; collaborated on projects within the Data Science Team delivering tangible results with a remarkable 97% model accuracy.
  - Developed Machine Learning models with the development team for large-scale data analysis for a period of two weeks, enhancing skills in data preprocessing and feature engineering.
  - Contributed to the creation of technical documentation for data pipelines, improving understanding of best practices in data workflow management.
  - Engaged in weekly team meetings and presentations, developing skills in communicating with both technical and non-technical members.
- **Immensphere Pvt. Ltd** — Bangalore, India
  Data Science Intern — *Apr 2022 - Jun 2022*
  - Strengthened professional competencies by engaging daily in real-time discussions within an agile work setting.
  - Contributed to multi-team projects including introductory machine learning and UI/UX design, gaining practical experience.
  - Collaborated with cross-functional teams to gather and prepare data for analysis, developing a deeper understanding of Machine Learning models.

PROJECTS

Completion of Knowledgebase for Long-Tail Entities with Zero-Shot Learning [LLM, Python, Knowledge Graphs, Zero-Shot Learning, NLP]

- Developed a dual-phase framework combining candidate generation and corroboration to precisely identify long-tail entities from complex datasets.
- Implemented advanced Transformer models, including SpanBERT, to process the MALT dataset and secure a 51% performance improvement.
- Integrated few-shot learning strategies with zero-shot techniques and knowledge graphs, enhancing system resilience and accuracy across diverse NLP tasks.

Virtual Reality - Gauss's Law visualization Laboratory Exercise [C#, C++, Unity, OpenGL]

- Designed an immersive 3D virtual lab to simulate Gauss's Law, enabling interactive manipulation of diverse charge distributions.
- Constructed precise measurement tools to calculate electric flux across distinct Gaussian surfaces in real time within the simulation.
- Designed intuitive graphical representations for charge distributions within a 3D virtual environment, leading to increased visual understanding for students.

SKILLS

Languages: C/C++, Python, Java, HTML, CSS, JavaScript, SQL, PHP, bash/shell
Frameworks/Cloud: AWS, Flask, Django, Unity, OpenGL
Technical Skills: Deep Learning, Machine Learning, DSA, Data Visualization, Statistical Analysis, Algorithm Optimization, Git, MySQL, Tableau
Other Skills: DSA, Operating Systems, Agile Methodology, Software Engineering

CERTIFICATIONS

- Microsoft Certified: Azure AI Fundamentals.
- Neural Networks and Deep Learning by DeepLearning.AI (Coursera), Blockchain Specialisation by University of Buffalo(Coursera), Machine Learning by Stanford University (Coursera)