SOWMYA SREE BHAGYAM

MASTER'S STUDENT

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PROFILE SUMMARY

Enthusiastic and detail-oriented Computer Science graduate with strong foundations in software development, machine learning, and data analytics. Skilled in building end-to-end applications, analyzing data to drive insights, and developing intelligent systems that solve real-world problems. Adept at working with Python, SQL, and modern ML frameworks to design scalable and efficient solutions. Eager to contribute to innovative projects as a Software Engineer, Data Scientist, or Machine Learning Engineer while continuously learning and growing in a dynamic environment.

EDUCATION

Master's in Computer Science   *2024 - Present*

Old dominion University, Virginia

Bachelor of Technology in Computer Science and Engineering   *2020 - 2024*

KL University Hyderabad, India

WORK EXPERIENCE

Graduate Assistant - Perry Honors College, Old Dominion University, Virginia   *August 2025 - Present*

- Collaborated with academic teams to develop data analytics solutions for tracking student success.
- Designed dashboards using Python and Power BI to analyze student data and visualize performance insights.
- Implemented ML models to identify academic trends and generate predictive insights for advisors.
- Managed calendar and scheduling workflows to optimize advising sessions and resource allocation.

PROJECTS

Crime Data Analysis for public safety

- Translated user needs from public safety stakeholders into data products for hotspot forecasting.
- Designed ETL pipelines and predictive ML models using Python, Pandas, and scikit-learn to identify crime patterns.
- Developed Power BI dashboards enabling interactive exploration and real-time situational awareness.
- Delivered actionable insights that supported data-driven decision-making for public safety initiatives.

Fashion Recommendation System

- Developed an end-to-end recommendation engine using CNNs (ResNet-50) for personalized clothing suggestions.
- Built an interactive Streamlit UI for real-time recommendations and user engagement.
- Optimized model performance and scalability through an efficient ML pipeline in Python.

Fashion Recommendation System

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- Optimized model performance and scalability through an efficient ML pipeline in Python.

TECHNICAL SKILLS

- Programming: Python, SQL, JavaScript (HTML, CSS)
- AI/ML Tools: PyTorch, scikit-learn, Generative AI, CNNs, NLP, Pandas, NumPy, Matplotlib, Seaborn
- Data Visualization: Power BI, Tableau
- Frameworks & Tools: Streamlit, Git, Eclipse, PyCharm, Agile/Scrum, CI/CD basics
- Databases: MySQL, MongoDB
- Core Concepts: Data Structures & Algorithms, API Development, Operating Systems Fundamentals

CERTIFICATIONS

- Microsoft Certified: Azure Fundamentals
- Microsoft Certified: Azure Data Engineer Associate
- **Won third place in Hampton Roads Datathon 2025 organized by city of Norfolk, VA**