

# ALEKHYA MUDIRAJ MENGANI

Norfolk, Virginia | (571)-567-0432 | [ameng005@odu.edu](mailto:ameng005@odu.edu)

## EDUCATION

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Masters in computer science

- Old Dominion University
- August 2023 to May 2025

Graduate Research Assistant

- Loyalty Science Lab, Strome Business College

Participating in cutting-edge research aimed at understanding and enhancing customer loyalty. Responsibilities include data analysis, database designing, and contributing to academic publications, showcasing my research, analytical, and teamwork skills in a multidisciplinary setting.

- Feb 9 to May 9

Bachelor of Technology in Information Technology

- VNR Vignana Jyothi Institute of Technology
- 2018 to 2022
- CGPA : 8.39/10

## TECHNICAL SKILLS

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- Proficiency in Microsoft Office Suite (Word, Excel, Outlook)
- Programming Languages: Python, C
- Databases: MYSQL, NoSQL databases like MONGODB
- Machine Learning: Data Preparation, Data Visualization

## SOFT SKILLS

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- Strong interpersonal and communication skills
- Exceptional customer service and problem-solving abilities
- Effective team leadership and project management
- Administrative Skills: data management, record keeping, scheduling, and other organizational abilities.
- Adaptability and a positive attitude.

## LEADERSHIP AND EVENT PLANNING

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- **ACM STUDENT CHAPTER - SOCIAL MEDIA TEAM LEADER**
  - Led a team of 5 members in managing and promoting the chapter's digital presence.
  - Orchestrated successful events including 'Conquestador,' 'ACM Code Heist,' and 'Cyber Ark Workshop,' enhancing engagement and participation.
  - Organized the 'GROW Webinar,' coordinating across multiple stakeholders for a seamless execution.
  - Demonstrated effective team leadership and project management, ensuring timely content delivery and high-quality online interactions.
  - Spearheaded social media campaigns for ACM Student Chapter, enhancing network reach and engagement through trend-aligned content and interactive posts.
- **NSS STUDENT CLUB**

- Spearheaded a blood donation event, coordinating logistics and volunteer activities, resulting in significant contributions to local blood banks.
- Organized a plantation drive, leading efforts in environmental sustainability and community engagement.
- Conducted a Health Camp, managing team tasks and resources for efficient healthcare service delivery to the community.

## ACADEMIC PROJECTS

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### **Detection of mosaic virus in tomato plants using convolutional neural networks - Deep Learning Neural Networks (CNN)**

- Developed a comprehensive predictive model using convolutional neural networks. The main objective of our project is to detect whether a tomato plant is affected by mosaic virus or not.
- Created a website where users can upload images of tomato plants, which are then analyzed using Convolutional Neural Networks to detect the mosaic virus, showcasing our expertise in web development and machine learning technologies.

### **Student Performance Prediction-Deep Learning Neural Networks (ANN)**

- Engineered an intricate neural network-based predictive model, primarily aimed at evaluating student performance by synthesizing diverse datasets including academic achievements, personal profiles, and daily engagements.
- This project uniquely integrates multifaceted aspects such as individual interests and habitual patterns, offering a holistic view in forecasting a student's academic potential and capabilities.

### **Music Genre Classification- XGB Boost Algorithm**

- Developed a system to classify music into various genres. Leveraging the GTZAN dataset, which includes 1,000 audio files across 10 genres, the project involved extracting key features using LIBROSA for training.
- Achieved an accuracy of 81%, selecting XGBoost for its efficiency with medium-sized datasets and low data loss.

### **Database Systems Project for Customer Loyalty Program**

- Spearheaded the development of a comprehensive database system for a customer loyalty program, involving team collaboration in creating a user-friendly Android application, utilizing Android Studio for development, and integrating with Apache Tomcat and SQL Developer for backend database management.
- The project entailed designing and executing an ER diagram to manage entities such as Customers, Transactions, and Products, enabling functionalities like loyalty point tracking, accumulation, redemption, and promotions, tailored for scalability and diverse business requirements.

## CERTIFICATION/COURSES

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- Social Psychology Course from Wesleyan University - Coursera
- Certificate course in Python, Machine Learning conducted by VNRVJIET College.
- Grace Granule: 1-week special program in the domain of Social Media Marketing.
- Data Warehouse Course – Udemy
- Bash scripting and shell programming course – Udemy