# Shanthan Gunti

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## EDUCATION

**UNIVERSITY OF MARYLAND, BALTIMORE COUNTY**                         *Expected: May 2025*
- *Bachelor of Science  in Computer Science (focus on Artificial Intelligence & Machine Learning)*

## SKILLS

| | |
|---|---|
| **Programming Languages** | Proficient in C/C++, Python, x86 Assembly, Java, SQL |
| **Technical Skills** | NLP, Data Modeling, Machine Learning, version control, Data Visualization(Tableau) |
| **Tools & Operating Systems** | Linux, Windows, Numpy, Pandas, Matplotlib, ScikitLearn, Openai, LangChain |

## RELEVANT COURSEWORK

Data Structures(C++), Intro to Machine Learning(Python), Statistics & Probability, Linear Algebra

## EXPERIENCE

### AI4ALL COLLEGE PATHWAYS

Discover AI                                                          *February 2022 - May 2022*
- *Explored foundational AI concepts including gradient descent and neural networks, while analyzing ethical considerations in data processing and AI deployment.*
- *Collaborated on a project analyzing data relevant to AI's role in breast cancer detection.*
- *Achieved 98% accuracy in classifying cancerous and healthy cells using binary linear classification.*

### AI4ALL COLLEGE PATHWAYS

Apply AI                                                            *September 2022 - December 2022*
- *Acquired proficiency in neural network concepts, regression, classification algorithms, and diverse learning methodologies, bolstering practical application expertise.*
- *Collaborated with a team to develop a project focused on analyzing sentiment in Reddit posts using Natural Language Processing techniques.*
- *Implemented Bayesian networks for binary classification, distinguishing results into either "depressed" or "not depressed" categories with high accuracy and reliability.*
- *Collaborated with a mentor to enhance technical skills in data sourcing, organization, visualization, implementation, and evaluation, gaining valuable insights and experience.*

## PROJECTS

### Reddit Posts Sentiment Analysis Project (Independently executed project)
- *Employed multiple natural language processing algorithms to evaluate sentiment accuracy within Reddit posts, enhancing analytical insights.*
- *Implemented the TF-IDF statistic to extract insights into the importance of words within each post, contributing to comprehensive sentiment analysis.*
- *Utilized the Vader sentiment analysis tool to assign sentiment scores to individual words and phrases, enriching the depth of sentiment analysis.*
- *Leveraged the BERT model from the Transformers library by Hugging Face to evaluate sentiment and identify wordplay nuances within Reddit posts, achieving enhanced accuracy and understanding.*
- Analyzed data from reddit posts to train an AI to predict signs of depression using supervised learning, NLP, and sentiment analysis.

### AVL Tree & Hash Maps Class Project
- Created AVL Tree and Hash Maps in C++ to master efficient data storage and retrieval and demonstrated understanding of hashing concepts through practical application.
- Developed AVL Tree for balanced binary searching and deployed Hash Maps for rapid data retrieval.