Amaraneni Nithin

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# Skills

**Languages**: C++, Python, Java

**Web Technologies**: HTML and CSS, NodeJS, JavaScript, React

**Tools/Platforms**: MySQL, MongoDB

**Professional Skills**: Problem-Solving Skills, Team Player, Project Management, Adaptability

# Experience

**Google Adversarial Nibbler Project** Oct 2024 – Jan 2025

### AI Model Tester

### Contributed to the evaluation and testing of AI models by generating prompts and analyzing output images.

### Documented detailed explanations for incorrect or abnormal outputs to support model improvement.

### Utilized critical thinking and analytical skills to identify inconsistencies in AI-generated outputs.

### Enhanced model reliability and functionality for end-users through testing and feedback.

# Projects

#### Design and Implementation of an Advanced Contextual Question Answering Chatbot using the T5 Model and SQuAD Dataset Oct 2024 – Dec 2024

#### Developed an advanced contextual question-answering chatbot leveraging the T5 transformer model.

#### Fine-tuned the model on SQuAD dataset to deliver precise and context-aware responses.

#### Designed and implemented model architecture to enhance NLP capabilities.

#### Achieved high accuracy in real-time question answering tasks through optimization.

#### Tech: Python, Pandas, Fuzzy Logic.

#### Sudoku Solver using Backtracking Algorithm May 2024 – Jul 2024

* Developed a Java -based Sudoku Solver to solve a standard 9x9 Sudoku puzzle.
* Implemented the backtracking algorithm to efficiently find valid solutions.
* Sudoku is a logic-based, combinatorial number-placement puzzle where the goal is to fill a 9x9 grid so that each column, each row, and each of the nine 3x3 sub grids.
* Applied combinatorial logic to enhance problem-solving capabilities.

Tech: Java, Backtracking Algorithm.

#### Stock Market Predication using Time Series Mar 2024 – May 2024

* Designed and implemented a stock market prediction model using time series analysis to forecast stock prices.
* Applied statistical techniques and machine learning algorithms to analyze historical data trends.
* Improving prediction accuracy for informed investment insights.

Tech: Python, Pandas, NumPy, Scikit learn.

# Certificates

## Introduction to Machine Learning IITKGP Jul 2024 – Sep 2024

## NPTEL

Introduction to Internet of Things Jul 2024 – Oct 2024

NPTEL

Data Structure and Algorithms May 2024 – Jul 2024

GeeksforGeeks

Mastering Data Structure and Algorithms using C and C++ Jan 2024 – Feb 2024

Udemy

# Education

* **Lovely Professional University** Phagwara, Punjab

### Bachelor of Technology - Computer Science and Engineering Since August 2022

* **Narayana Junior College** Hyderabad, Telangana

### Intermediate May 2020 - June 2022

* **Netaji High School** Hyderabad, Telangana

### Matriculation June 2019 - April 2020