NANDINI NARENDRA MAHANAG

FINAL YEAR CSE STUDENT
AI/ML Engineer + Frontend

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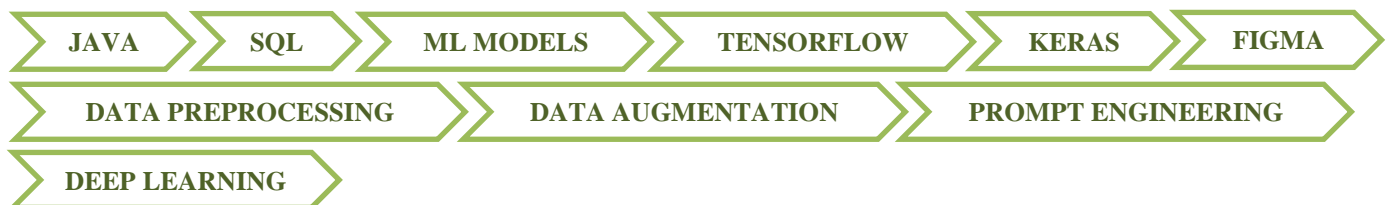
PROFILE

I am an **AI/ML** Engineer with **hands-on experience** in **Computer vision**, **IOT**, **Deep learning** and frontend technologies with models like BiLSTM and LSTM for **Sentiment analysis**. Currently, working on **Smart traffic management** techniques that utilize advanced ML models and computer vision to **reduce traffic in India**. I also have comtributed to frontend projects using **HTML CSS** and **JS** also demonstrating **Agile methodology**.

EDUCATION

✓ **B. Tech**	**CSE**	Vellore Institute of Technology, AP	**8.1 GPA**	Aug 2021 –	**Present**
✓ **Sr. Secondary**	**12th (PCM)**	Bethany Convent School	**76.2 %**	July 2019 –	**July 2020**
✓ **Secondary**	**10th**	Bethany Convent School	**77.8 %**	May 2017 –	**May 2018**

SKILLS

> JAVA > SQL > ML MODELS > TENSORFLOW > KERAS > FIGMA >

> DATA PREPROCESSING > DATA AUGMENTATION > PROMPT ENGINEERING >

> DEEP LEARNING >

PROJECTS

SMART TRAFFIC FLOW DETECTION USING REAL TIME ANALYTICS (IOT)

Divert **congested traffic** during **prime time** in India to **avoid slowdowns** and delays.
- ✓ Utilization of IOT devices to capture **real-time video streams** (Real time Object Detection)
- ✓ **Adaptation and Improovment** on Delhi and Banglore's VNT traffic monitoring signaling system.
- ✓ Optimizes smart traffic flow by enabling **traffic density analysis** and **dynamic signal adjustments**.

FAKE NEWS DETECTION SYSTEM ON SOCIAL MEDIA PLATFORMS

Fake news identification to **increase credibility** of news content to **reduce misinformation**.
- ✓ Implemented - BiLSTM **(90.7%)**, **LSTM (75%)**, and **SVM (68%)** with **SHAP** integration.
- ✓ Semantic and contextual understanding of the tokens to understand the relationship between words.
- ✓ Then the model output provided is a probability score which indicates whether the news is real or fake.

PUBLICATION/INTERNSHIP

CHAPTER PUBLICATION | UBIQUITOUS COMPUTING AND TECHNOLOGICAL INNOVATION FOR UNIVERSAL HEALTHCARE

Blockchain, Research and Development
- ✓ Authored a chapter on block chain's transformative role in healthcare for the book "**Ubiquitous Computing and Technological Innovation for Universal Healthcare**", published by IGI Global.

BLUESTOCK FINTECH | SOFTWARE DEVELOPER INTERN

HTML CSS and Vanilla JS, Frontend Development
- ✓ **User-centric** frontend prototype for the IPO web application using **Figma** and **UI/UX Principles.**
- ✓ **Agile methodology** approach resulted in accelerated outcome upto **30%-40% faster in reaching targets.**
- ✓ Utilized **strong communication skills**, **Notion** to meet deadlines and **keep track of the team**.

CERTIFICATIONS

- ✓ **AWS Cloud Practitioner CLF-C02 (Udemy)**
- ✓ **Java Full Stack Developer (IamNeo)**