

# NANDINI NARENDRA MAHANAG

FINAL YEAR CSE STUDENT

AI/ML Engineer + Frontend

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## PROFILE

AI/ML Engineer with **hands-on experience** in **Computer vision, IOT, Deep learning**. Currently, working on **Smart traffic management** techniques that utilize **reduce traffic in India**. Contributed to frontend projects using **HTML CSS** and **JS**. Executed **Agile methodology** using **Notion** and **ClickUp** to boost teamwork.

## EDUCATION

✓ <b>B. Tech</b>	<b>CSE</b>	Vellore Institute of Technology, AP	<b>8.1 GPA</b>	Aug 2021 – <b>Present</b>
✓ <b>Sr. Secondary</b>	<b>PCM</b>	Bethany Convent School	<b>76.2 %</b>	July 2019 – <b>July 2020</b>
✓ <b>Secondary</b>	<b>General</b>	Bethany Convent School	<b>77.8 %</b>	May 2017 – <b>May 2018</b>

## SKILLS

Java , SQL , ML Models , Tensorflow , Keras , Data Pre-processing , Data Augmentation , Deep Learning , Figma , Prompt Engineering

## 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 Improvement** on Delhi and Bangalore'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.

## HIGHLIGHT

### CHAPTER PUBLICATION | UBIQUITOUS COMPUTING AND TECHNOLOGICAL INNOVATION FOR UNIVERSAL HEALTHCARE

Author , Publication - IGI Global

- ✓ Research and Development on block chain's transformative role in healthcare for the book "**Ubiquitous Computing and Technological Innovation for Universal Healthcare**".

## INTERNSHIP

### 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)**