



Manikanta Bukapindi

manikanta7342@gmail.com | [linkedin/manikanta7342](https://www.linkedin.com/in/manikanta7342) | github.com/Manikanta-7342 | portfolio.com/Manikanta7342 | [phone number/8897946277](tel:8897946277)

EDUCATION

Dayananda Sagar College Of Engineering, Bangalore

B.E in Artificial Intelligence and Machine Learning Engineering | CGPA: 9.70

Karnataka, India

Dec, 2020 – Jul, 2024

EXPERIENCES

SandLogic | Deep Learning Intern (7 months)

Feb 2023 - Aug 2023

- Created and deployed a cutting-edge drone system using deepstream and YoloV8 with 48mAP, enhancing response time and boosting rescue success rate by 50% for search and rescue operations.
- Built and applied a custom CNN model in C++, delivering 40% higher performance than Python-based PyTorch solutions as a research team member.

SIFF Young Artiste | Project Intern (7 months)

Sep 2022 - Mar 2023

- Developed a frontend and a backend for an online voting system using HTML, CSS, Flask API, PHP, and XAMPP server.
- Tested and debugged the system for functionality and security issues.

PROJECTS

PharmAIcist | [View Project](#) | AI in the Discovery of Drugs to Inhibit Alzheimer's Disease | Team size: 4

- Leveraged machine learning to predict bioactivity and toxicity probability scores of chemical compounds, enabling targeted research in neurodegenerative disorders.
- Developed and evaluated 10 ML models, selecting Random Forest as the best model with 90% accuracy for bioactivity prediction based on ChEMBL Dataset.
- Visualized and interpreted the results using matplotlib and seaborn libraries.

TrafficKAI | [View Project](#) | A-EYE on roads | Team size: 4

- Developed an Automated Traffic Signal System with Dynamic Traffic Signaling and Emergency Vehicle Detection using computer vision and deep learning techniques.
- Built the classification model by using various transfer machine learning techniques such as Vgg16, Resnet50 and Single-Shot-Detector Object Detection model for emergency vehicle detection and density score calculation.
- Designed and developed a user interface for real-time traffic flow optimization using PyQt5.

SKILLS

- **DS/ML/AI:** Python, DS lifecycle, ANN/CNN techniques, Transfer Learnings, Data Preprocessing
- **Python Framework/Modules:** Sklearn, Pytorch, keras, Numpy, Pandas, Tensorflow, Opencv.
- **Mlops Tools:** Git, GitHub Actions, Docker, AWS Code pipeline, and Google Firebase
- **Programming and DB Languages:** Python, Java, C, C++, SQL

ACHIEVEMENTS

- **Centuriton Hackathon** | Won the AI/ML track in a national-level hackathon by MSRIT college, outperforming 50 other teams.
- **Intel OneAPI Hackathon** | Secured the first place in the Intel oneAPI Hackathon among 12 finalist teams and became a student ambassador.

VOLUNTEER EXPERIENCE

Intel Student Ambassador

- Led a cross-architecture programming workshop for 60 students using the oneAPI toolkit and the Intel Developer cloud, achieving a 40% increase in CPU performance without CUDA.