Nagendra K P

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Profile

Aspiring AIML with a foundational understanding of Machine Learning, Deep Learning and Computer Vision. Eager to leverage my academic background and self-taught projects to contribute to innovative data-driven solutions in a professional environment. Passionate about continuous learning and applying theoretical knowledge to real-world challenges.

Professional Experience

11/2024

Banglore, India

Data Science Intern, *Nasscom Foundation*

- Processing, cleansing and verifying the integrity of data used for analysis. Doing analysis and presenting results in a clear manner.
- Working on building and optimizing the state-of-the-art Machine learning and Deep Learning models.
- Working and learning on how to create and automate the project lifecycle with the help of creating data pipelines.

Projects

Phishing Detection ML Pipeline (link)

- End-to-End Machine Learning Pipeline for Phishing Website Detection using a modular, configurable, and production-ready approach.
- Models Trained: Random Forest, Decision Tree, Gradient Boosting, Logistic Regression, AdaBoost and Automated Hyperparameter Tuning
- Experiment Tracking: MLflow is integrated with DagsHub for metrics & artifact logging

Topic Modeling on News Articles (link)

- End-to-End Machine Learning Pipeline for Topic Modeling is an unsupervised NLP technique used to uncover hidden thematic structures in text data.
- Models Trained: Latent Dirichlet Allocation (LDA) and Latent Semantic Analysis (LSA).
- Measures the semantic similarity between high-scoring words in a topic.

Safety Helmet Detection Model Based on Improved YOLO-M (link)

- The “Safety Helmet Wearing Detection Model” utilizes an enhanced YOLO-M architecture for real-time detection of safety helmet compliance.
- The project involves assembling a dataset of images, preprocessing, and fine-tuning the YOLO-M model specifically for helmet detection. Post-training, the model performance will be evaluated using metrics like precision and recall.
- It will be deployed for static image and video analysis to improve safety in various environments.

Skills

Programming languages :
Python

Deep learning algorithms :
ANN, CNN, RNN

Database
SQL, MongoDB

Gen AI
Langchain

Machine learning algorithms :
Linear Regression, Logistic regression, Decision tree, Random forest, XGBoost

Frameworks
TensorFlow, Scikit Learn

MLops
Docker, Git

Education

2020– 2024
Bangalore, India

Bachelor of Engineering **(CSE),** *VTU*
Cambridge Institute of Technology

7.17 *CGPA*

2024– 2026
Bangalore, India

Master of Technology **(AIML),**
M. S. Ramaiah University of Applied Sciences

8.13 *CGPA*