ASHWINRAJ

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PROFILE SUMMARY

Dual-degree data science & AI engineering candidate (IIT Madras & IFET) with 2+ technical internships. Published researcher in machine learning (IJNRD) with experience in building CNN-based computer vision systems and sentiment analysis models, and advanced in Python, SQL, and Power BI.

EDUCATION

INDIAN INSTITUTE OF TECHNOLOGY (IIT MADRAS)

- B.Sc. in Data Science (Focus on core rigor: Statistics, Computational Thinking, Math) *2024 - present*
  GPA : 7.0

IFET COLLEGE OF ENGINEERING, VILLUPURAM

- B.Tech. in AI & Data Science *2022 - present*
  CGPA : 8.5

TECHNICAL STACK

- **Languages:** Python, SQL
- **Tools**: Power BI, Excel, GitHub, Arduino
- **Domain**: Statistics, Mathematics, Computer Vision, Sentiment Analysis
- **Library**: NumPy, Pandas, Scikit-Learn, Matplotlib, Seaborn, TensorFlow, Keras.

INTERNSHIPS

MACHINE LEARNING intern | SUV INTERNATIONAL *JAN 2025-FEB 2025*

- Engineered text summarization and preprocessing pipelines using NLP techniques, reducing data noise by 30% for downstream analysis.Trained and optimized regression and ensemble models (Gradient Boosting, Random Forest), achieving superior performance metrics (Low MSE, High R2 Score) on client datasets.

WEB DEVELOPMENT intern | ASKAN TECHNOLOGIES *JUNE 2024-JULY 2024*

- Developed responsive front-end components using HTML5, CSS3, and JavaScript, ensuring cross-browser compatibility and mobile responsiveness.Optimized website performance and structure to support portfolio scalability.

PROJECTS

FaceFusion:student attention monitoring system using CNN *2024*

- Developed a real-time student engagement monitoring system using CNNs (TensorFlow/Keras) to classify 7 distinct emotional states.Visualized attention metrics via a dynamic Flask & JavaScript dashboard, achieving a model accuracy of 76.8%.
- **TECH USED:** TensorFlow, Keras, NumPy, Scikit-Learn, Flask, JavaScript, HTML

Fake News Detection and News Sentiment Analysis Using Machine Learning Algorithm *2024*

- Engineered a binary classification system to validate news veracity and perform multi-class sentiment analysis (Positive/Neutral/Negative). Developed a text classification pipeline using NLP (NLTK/Spacy) to detect misinformation with 89% accuracy.
- **TECH USED:** NumPy, Scikit-Learn, Pandas, Spacy

CERTIFICATIONS

- Data Science For Engineering,NPTEL
- Cisco Certified Network Associate, CISCO
- Arduino Programming,PEC ATAL INCUBATION CENTRE

ACHIEVEMENTS/PUBLICATIONS

- Pathfinder-Navigating Tourism with Machine Learning Recommendations (IJNRD JOURNAL)
- 2nd PRIZE IN PROJECT PRESENTATION
- Finalist in SQL clash (inter-college event)