AJAY J

ajay.jofficial3@gmail.com ◇ linkedin.com/AjayJ

SUMMARY

I am a highly motivated and results-oriented professional with a strong work ethic and a proven ability to deliver on commitments. As a natural leader, I thrive in bringing teams together and fostering collaboration to achieve shared goals. I balance my ambition with empathy, always ensuring that both the results and the well-being of my team members are prioritized. Dependable and compassionate, I pride myself on my ability to stay focused on success while creating a supportive and positive environment. You can count on me to work diligently while also being mindful of those around me.

EDUCATION

Bachelor of Technology in Civil Engineering (*08.14 CGPA***)** 2022 - Present
NIT, Trichy

Pushpalata Vidya Mandir (94.20%) (*Class XII***)** 2021 - 2022
Thiyagarajanager T'VEL

Pushpalata Vidya Mandir (83.60%) (*Class X***)** 2019 - 2020
Thiyagarajanager T'VEL

EXPERIENCE

Research Intern (Natural language processing**)** *NIT Trichy (Onsite) Jun 2024 - Jul 2024*

- Conducted comprehensive machine learning research using the LIAR dataset, focusing on fake news classification and detection.
- Implemented various machine learning models, optimizing performance metrics for accuracy, precision, recall, and F1 score.
- Fine-tuned Llama-3 models for political discourse analysis, detecting misinformation during the 2020 US elections.
- Explored deep learning techniques to analyse political narratives and trends in fake news propagation.

PROJECTS

Quantum Chemistry Simulation Using Variational Quantum Eigensolver: *July 2024*

- Developed quantum chemistry simulation for H2 molecule ground state energy calculation using VQE algorithm
- Leveraged quantum computing techniques to solve computationally intensive quantum mechanical problems
- Implemented Variational Quantum Eigensolver to optimize quantum circuit parameters
- Technologies Used: Quantum Computing, VQE Algorithm, Quantum Circuits, Python

YOLOv5 Image Object Detection: *Sep 2024*

- Developed custom YOLOv5 implementation for object detection
- Utilized pre-trained COCO dataset models for accuracy
- Implemented Jupyter Notebook for interactive detection workflow
- Technologies Used: Python, YOLOv5, Jupyter, COCO dataset

SKILLS

Languages	Python, JavaScript, C, C++, HTML, CSS.
Databases	MySQL
Tools	Microsoft Word, PowerPoint, Excel, Adobe X
Technologies	Machine Learning, Computer vision, NLP, Generative AI.

CERTIFICATION

Generative AI for Educators Certificate
Certificate of Participation in Level 1: E-Commerce

POSITIONS OF RESPONSIBILITIES

Festember Visual Audio *Coordinator: Mar 2023 | Manager: Jan 2024 - Present*

- Coordinator: Maintained and troubleshooted AV equipment
- Manager: Led Visual Audio team for cultural events
- Prepared and guided AV setups for ProShow events
- Progressed from technical skills to leadership role

Taskforce Webops *Deputy Manager: Sep 2023 | Manager: Jun 2024 - Present*

- Deputy: Managed website creation for NIT Trichy club
- Manager: Led website management for campus initiatives
- Supported Social Initiatives Hub's digital presence growth
- Advanced from assisting to overseeing program implementations

Webops, Moments *Deputy Manager: Dec 2023*

- Managed marketing for NIT Trichy's official symposium
- Supported event with 1500 student participation
- Oversaw digital presence for workshops and seminars
- Contributed to large-scale academic event management

Student Mentor, Orientation Team *Aug 2023*

- Mentored 5 Civil Engineering students (Class 2027)
- Provided academic support and answered queries
- Advised on club involvement opportunities
- Facilitated integration of new students to campus

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