

ADARSH AJAY

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## EXECUTIVE SUMMARY

Enthusiastic and innovative Software Developer with a focus on model building, transformer technologies, and Python development. Currently honing skills as an intern at [AOT Technologies](#), contributing to groundbreaking projects in FastAPI, console Python building, and artificial intelligence. Demonstrated proficiency in leveraging advanced algorithms and deep learning techniques to drive project success. Winner of multiple state-level hackathons, recognized for leadership and creativity. Committed to continuous learning and excellence in software engineering.

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## PROFESSIONAL EXPERIENCE

Software Developer Intern | [AOT Technologies, Trivandrum](#)

*Feb 2024 - Present*

- Spearheaded the development of an image-captioning application using advanced models and transformers, facilitating seamless conversion of images to corresponding captions.
- Led a team in the creation of a Django platform enabling efficient document querying through deep learning algorithms.
- Developed an image-sharing platform incorporating advanced algorithms for image processing and additional features like live camera filters and image-to-text conversion.
- Contributed to the creation of a PDF data extraction application utilizing advanced algorithms for efficient data retrieval.

Artificial Intelligence Intern | Acmagrade

*August 2023 - December 2023*

- Interned as an Artificial Intelligence intern, gaining hands-on experience in AI development.
- Contributed to AI projects aimed at solving real-world problems.

- Developed and deployed machine learning models for various applications.

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## EDUCATION

Diploma in Computer Engineering | Central Polytechnic College, Trivandrum

*Aug 2021 - Present*

Studying various aspects of computer engineering including software development, machine learning, and deep learning.

Additional Certifications:

- Machine Learning Specialization | Stanford University: Learned advanced machine learning algorithms and techniques.
- Prompt Engineering | Vanderbilt University: Acquired skills in prompt engineering methodologies for AI systems.
- Deep Learning | Sahara: Explored deep learning architectures and applications.
- Data Scientist | Sahara: Developed expertise in data analysis and interpretation.
- Python | NPTEL: Mastered Python programming fundamentals and advanced concepts.
- Artificial Intelligence | IBM: Learned foundational concepts and applications of artificial intelligence.
- Django | Udemy: Acquired proficiency in web development using Django framework.

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## ACHIEVEMENTS

- Two-time State-level Hackathon Winner
  - Participant in International hackathons including MLH
  - 4th place in National Hackathon
  - 1st place in State-level Coding competition
  - 2nd place in Web Design competition
  - Coordinated various state-level competitions
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## PROJECTS

- Image Captioning Application:
  - Developed an advanced application using transformers and deep learning models to generate captions for images automatically. Improved user experience and accessibility for visually impaired individuals.
- Document Querying Platform:
  - Led the development of a Django platform equipped with deep learning algorithms for efficient querying through documents. Enhanced productivity and streamlined information retrieval processes for businesses.
- Image Sharing Platform:
  - Contributed to the creation of a feature-rich image-sharing platform incorporating advanced algorithms for image processing. Implemented additional functionalities such as live camera filters and image-to-text conversion, enhancing user engagement.
- PDF Data Extraction Tool:
  - Collaborated on the development of a tool utilizing advanced algorithms to extract useful information from PDF documents. Streamlined data extraction processes, increasing efficiency and accuracy in data retrieval tasks.
- Emotion-Based Music Recommendation System:
  - Created a flask web application integrating deep learning models to recommend music based on users' facial expressions. Implemented sentiment analysis and image verification features, providing personalized music recommendations.
- Mask Detection Application:
  - Developed an application using computer vision techniques to detect whether a person is wearing a mask. Contributed to public health efforts by enforcing safety measures during the COVID-19 pandemic.
- Smart City Management Application:
  - Designed and implemented an application for managing smart cities, integrating machine learning algorithms for predictive analysis and disaster management functionalities. Enhanced urban planning and infrastructure management for sustainable development.

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## EXTRACURRICULAR ACTIVITIES

- Actively participated in over 10 hackathons including 2 National, 6 National, and 2 International events, showcasing problem-solving skills and creativity in software development.
- Engaged in collaborative projects and open-source contributions, fostering a culture of knowledge sharing and teamwork.
- Pursued hobbies such as watching movies, anime, and series, enhancing creativity and storytelling abilities.
- Enjoy playing chess, improving strategic thinking and decision-making skills.
- Passionate about music, exploring different genres and instruments, fostering creativity and emotional expression.

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## SKILLS

- Programming Languages: Python, JavaScript
- Frameworks: Django, Flask, FastAPI
- Libraries: Transformers, TensorFlow, PyTorch, NLTK, OpenCV
- Tools & Technologies: Git, GitHub, Hugging Face, NLP, Linux, Windows
- Frontend Technologies: HTML, CSS, Tailwind CSS
- Other: Machine Learning, Deep Learning, Image Processing, Transformer Technologies

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## LANGUAGES

Fluent in English and Malayalam, enabling effective communication in diverse settings.

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- Engaged in collaborative projects and open-source contributions, fostering a culture of knowledge sharing and teamwork.
- Coordinated various state-level competitions, demonstrating leadership and organizational skills.

- Participated in community service activities focused on promoting digital literacy and technology education.
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## HOBBIES

- Enjoys watching movies, anime, and series, exploring diverse genres and storytelling styles.
- Passionate about music, playing various instruments and exploring different genres for creative inspiration.
- Enjoys playing chess, enhancing strategic thinking and decision-making skills.
- Devotes time to coding projects and personal programming challenges, continuously improving technical skills and exploring new technologies.
- Active in outdoor activities such as hiking and cycling, promoting physical health and well-being.