Ashwin Shankarnarayana

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WORK EXPERIENCE

Software Engineer Intern

Dynos Inc, Washington, DC   *May 2024 - September 2024*

- Developed an interactive EdTech platform that transformed static textbook content into engaging digital materials for grades 1-10, reaching over 50,000 students.
- Implemented OCR technology to digitize educational textbooks with 95% accuracy, reducing manual data entry time by 80%.
- Automated lesson plan and teacher note generation using OpenAI API, accelerating content creation by 70% and improving accessibility for 5,000+ educators.
- Built an AI-driven exam feature generating personalized questions, increasing student engagement by 40% and reducing educator workload by 30%.

Machine Learning Intern

Stellantis, India   *March 2023 - July 2023*

- Built a Driver Monitoring System to detect driver distraction, leveraging machine learning to improve road safety and reduce accidents.
- Trained an object detection model using NVIDIA GPUs to process video data in diverse city traffic conditions, achieving 96.9 percent mean average precision (mAP) for a 3-class classification task.
- Integrated a magnetometer to differentiate between driver distraction and natural turning maneuvers, reducing false alarms by 35 percent.
- Engineered a YOLOv5-based object detection pipeline for real-time performance and high accuracy, optimizing the system's responsiveness.

EDUCATION

Syracuse University - College of Engineering & Computer Science, Syracuse, NY   **May 2025**

Master of Science in Computer Engineering

Ramaiah Institute of Technology, Bangalore, Karnataka, India   **May 2023**

Bachelor of Engineering in Electronics and Telecommunication

TECHNICAL SKILLS

Programming Languages: Python, C, C++, Javascript, Django, NodeJs, React, PHP, HTML, CSS, SQL
Libraries and Tools: PyTorch, PyCharm, Tesseract, Sklearn, Pandas, Numpy, Natural Language Toolkit (NLTK), Git, Docker

PROJECTS

Social Networking Site   **March 2023 - July 2023**

- Built a feature-rich social networking platform enabling users to share multimedia content such as photos and videos, fostering dynamic user interaction and engagement.
- Designed a private interest expression feature, ensuring discretion in user interactions by keeping requests invisible unless mutually reciprocated, enhancing user comfort and privacy.
- Implemented advanced encryption techniques, such as envelope encryption, to secure user communications and sensitive data against unauthorized access, increasing user trust.

CuseBids - A bidding app for students   **Feb 2024 - May 2024**

- Built a user-friendly bidding application tailored for students to engage in auctions, facilitating efficient buying and selling of items within a localized community.
- Integrated the Stripe API for seamless and secure payment processing, ensuring an optimized user experience and compliance with financial transaction standards.
- Enhanced app security by implementing token-based authentication, effectively reducing the risk of unauthorized access and ensuring safe credential management.
- Developed a responsive user interface with real-time auction updates to provide a dynamic bidding experience for users, improving overall app usability.