Kunal Santosh Pingale

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EDUCATION

Master of Science in Engineering Management   **Expected June2026**

University of Massachusetts Amherst

Key Courses-

Project Management, Product Management, Supply chain Management, Business Intelligence

Bachelor of Engineering in Computer Engineering   **June2024**

Dr. D.Y Patil Institute of Technology Pune   **CGPA: 8.89/10**

INDUSTRY INTERNSHIPS

AI/ML Intern/Bitmap Technology Pune   **July2023–May2024**

- Designed interactive projects, gained hands-on experience. I worked on data preprocessing, analyzing the data, building and testing different AI/ML models which included training the data, validating, tuning, testing, real time monitoring of the models
- Implemented various technologies in projects like OCR, CNN, neural networks, image processing to make a reliable and robust system for real time applications aimed at improving AI/ML capabilities

Web Development Intern/Elite Software Pune   **January2023–March2023**

- Developed interactive and responsive web applications with cross browser compatibility. I worked on assessing the design and development of web pages and web applications, also was a part of debugging and testing teams, contributed to efficient working of web applications and to make it user friendly
- I worked with HTML/CSS, JavaScript, React.js, Bootstrap, DBMS so as to build, maintain and enhance the efficiency of web applications

ACADEMIC PROJECTS

Number Plate recognition using ML   **July2023 –May2024**

Project Member

- Developed a user friendly number plate recognition system using different technologies such as Optical Character Recognition, Convolutional Neural Networks, Live camera, Haar Cascade Classifier, Cloud Vision API, SQLite and Character Segmentation.
- Integrated advanced deep and machine learning algorithms to analyze uploaded images for effective number plate recognition. Developed scalable cloud integration that decreased infrastructure costs by 30% while enabling remote access capabilities. Reduced processing time from 3 seconds to under 0.8 seconds per image, enabling real-time applications in traffic monitoring. Achieved 96% accuracy in license plate detection across diverse lighting conditions and vehicle types, exceeding industry standards by 15%

Tourist Website   **January2023–March2023**

Project Member

- Developed a user friendly tourist website using Python, Django, HTML, CSS, .js and php for database connectivity. Where users can interact and ask questions and that responses will be stored at the backend and then responded
- Enhanced user engagement metrics with 35% longer session durations and 28% more interactions with interactive features. Cleaner UI design resulted in 18% decrease in navigation-related support tickets and improved conversion rates for bookings by 25%

PUBLICATION

- "Enhancing Automatic Vehicle Number Plate Recognition Systems: A Multidimensional Approach to Improve Efficiency and Applicability"– IN IJARSCT,VOLUME 4, ISSUE 5 MAY 2024

LEADERSHIPAND SERVICE

Coordinator, Entrepreneurship Development – Startup and Innovation Cell at Dr. D.Y Patil Institute   **Pune 2021-2022**
of Technology

- As a coordinator, arranged meetings and seminars with different entrepreneurs who interacted with the students and guided Them with their experiences and knowledge about entrepreneurship and startup

Member of National Service Scheme at Dr. D.Y Patil Institute of Technology   **Pune 2021**

- As a part of NSS we worked for the betterment of the society and worked to empower the youth to actively participate in welfare and cleanliness of the society and nation-building

SKILLS AND TECHNIQUE

Skills: SQL, Web development, PPT's, Data visualization, MongoDB

Technologies: Microsoft Power BI   **Libraries:**   NumPy, Pandas, Matplotlib, Seaborn