



Mukund Vashisht

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Bachelor of Engineering
in Information Technology
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EDUCATION

Degree	Institute	Board / University	CGPA/Percentage	Year
B.E. IT	Army Institute Of Technology , Pune	SPPU	7.6(Till Sem 7)	2021-2025
Senior Secondary	Delhi Public School , Jodhpur	CBSE	94.6%	2021
Matriculation	Delhi Public School , Jodhpur	CBSE	89.8%	2019

EXPERIENCE

- Cyncly** July 2024 - December 2024
Pune
Software Engineering Intern
 - Designed and deployed internal tools, leading to a 100% increase in operational efficiency by automating repetitive tasks and optimizing workflows.
 - Collaborated with cross-functional teams to design, develop, and deploy 5+ new features, boosting user engagement metrics by 15%.
 - Validated functionalities, and resolved 12+ critical bugs, ensuring seamless application performance and reliability.
- Nutpam Technologies** Jan 2024 - Feb 2024
Machine Learning (Image Processing) Intern
Remote
 - Designed and executed image processing algorithms using OpenCV and dLib libraries, achieving a 95 % accuracy in object detection tasks.
 - Prepared and preprocessed datasets by leveraging OpenCV for tasks such as image resizing, noise reduction, and augmentation, enhancing model training efficiency by 30%.
 - Specialized in image manipulation, object detection, and data analysis, streamlining preprocessing pipelines.

PROJECTS

- AI Content Tools** July 2024 - Sept 2024
HTML, CSS, TypeScript, React.js, Vite, Zustand, Microsoft Authentication
 - Developed a fully authenticated catalog application enabling users to search for desired tools and information effectively.
 - Utilized file upload functionality using React.js, allowing seamless data and image uploads to a server-connected database.
 - Enhanced search efficiency by providing contextual search results, with features to download data in ZIP or Excel formats.
 - Achieved 30% faster search responses through optimized algorithms and state management using Zustand and Redux.
- Driver Drowsiness Detection System** Apr 2024
Python, Jupyter Notebook, OpenCV, dLib.
Github
 - Designed and developed an AI-based system to detect driver drowsiness and alertness, utilizing advanced image processing techniques.
 - Implemented real-time image manipulation and detection algorithms using OpenCV and dLib libraries, achieving a detection accuracy of 90%.
- Employee Directory System** Feb 2025
HTML, CSS, TypeScript, React.js, Vite, Zustand, C#, ASP.NET Core Web API, MongoDB.
Github
 - Developed a full-stack employee directory system enabling CRUD operations (Create, Read, Update, Delete) on employee data with a responsive React frontend with Typescript.
 - Used Zustand for global state management to ensure lightweight and scalable UI state handling without boilerplate code.
 - Built RESTful APIs using ASP.NET Core, with clean separation of concerns and dependency injection for better maintainability with support of OpenAPI(Swagger).

TECHNICAL SKILLS

- Programming Languages:** C++, Python, JavaScript, TypeScript, Java, C#.
- Tools and Frameworks:** React.js, Sassy CSS, Redux, Microsoft Authentication (MSAL), Context API, Vite, Node.js, Express.js, OpenCV, dLib, Bootstrap, HTML, CSS, SQL, MySQL, MongoDB, Swagger(Open API), ASP.Net Core.

CERTIFICATIONS

- Data Structure and Algorithms** Udemy
- Web Development Course** Udemy
- Computer Vision and OpenCV** Udemy

POSITIONS OF RESPONSIBILITY

- Community Service Director**, Rotaract Club, Army Institute of Technology Aug. 2023 - Jul. 2024
- Founding Member**, Association of Computing Machinery Club, Army Institute of Technology Jan. 2024 - Jul. 2024
- Squash Event Head**, Sports Club, Army Institute of Technology Aug. 2023 - Jul. 2024

ACHIEVEMENTS

- National Squash Player**, Represented Pune University in All-India InterUniversity Squash Nationals 2023
- Squash Tournaments**, Secured first position in Squash Zonals and District Level 2022,2023