PRACHI MAHAJAN

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SUMMARY

Results-oriented Software Developer with a proven track record of delivering project outcomes. Seeking opportunities to leverage technical expertise and drive engineering excellence.

WORK EXPERIENCE

Software Engineer (AI/ML) - Dassault Systems, Pune   June 2023 - Present

- Created Visual Studio plug-in tool for several client side files creation which reduced the time of the task, which was manual beforehand.
- Researched and Worked on Object Detection Algorithms Implemented image segmentation using Detectron2 & Segment Anything Model(SAM) for creating masks of 3D CAD images
- Currently working on synthetic data generation and Image processing of engineering drawings and hand drawn sketches
- Currently working on mesh smoothening algorithms

Research Intern - Armament Research & Development Center, DRDO, Pashan   Feb 2023 - Mar 2023

- Synthesized information on fighter aircraft wing flutter at transonic speed
- Interpreted and summarized various research papers on Ground Vibration Tests (GVT) & Wind Tunnel tests. Expressed results and findings in the form of a thorough presentation & report paper

Operations Intern - Cummins Ind. Pvt. Ltd. Phaltan Megasite   Aug 2022 - Feb 2023

- Improved Overall Equipment Efficiency(OEE) from 57% to 72%. Debottlenecked bottleneck stations and planned cycle time reduction of various stations by various engineering implementations. Successfully debottleneck 7 stations and saved 254 seconds overall in cycle time.

EDUCATION

Bachelor's of Technology - Mechanical Engineering   Aug 2019- May 2023
Vishwakarma Institute of Technology, Pune, India
Final Grade : 9.1 /10

Honours/ Extra Credits - Artificial Intelligence & Data Analytics   Aug 2019- Aug 2021
Vishwakarma Institute of Technology, Pune, India
Final Grade : 8.7 /10

ADDITIONAL INFORMATION

- **Technical Skills:** C, C++, C#, , Java, JavaScript, Pandas, NumPy, Python Machine Learning Algorithms Deep Learning Algorithms Computer Vision, Transformers, Docker
- **Languages:** English, German, Marathi, Hindi
- **Certifications:**
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