

PRACHI MAHAJAN



www.linkedin.com/in/prachi-mahajan-vit

Software Developer(AI/ML) at Dassault Systems

CONTACT



9545271602



prachi.mahajan19@vit.edu
kuprachimahajan@gmail.com



Pune-411008



Linkedin-Prachi_Mahajan

HARD SKILLS

- C, C++, C#, , Java, JavaScript, Typescript
- Pandas, NumPy, Python
- Machine Learning Algorithms
- Deep Learning Algorithms
- Computer Vision
- CATIA, Ansys, AutoCad, Proteus
- Mechanical Design
- Lean Manufacturing, Lean Principles
- 6 Sigma, Project Management
- Customer Focus, Process Management
- Microsoft Excel, Powerpoint
- Social Media Management

SOFT SKILLS

- Leadership, Time management
- Work Ethic, Adaptability
- Co-ordination, Inspiring trust
- Interpersonal Skills, Strategic Planning
- Collaboration, Problem solving
- Managing projects, people

EDUCATION

2019-23

● **B.Tech. (Mechanical Engineering)**
Vishwakarma Institute of Technology, Pune

9.1 CGPA

● 2019-21 **Honors- Artificial Intelligence & Data Analytics**

8.7 Grades

2018-19

● **HSC, Science**
K.C.E. Society's Swami Vivekanand Junior College, Jalgaon

86.6 %

2017

● **SSC**
98.8 %

ABOUT ME

A Mechanical Engineering graduate from Vishwakarma Institute of Technology. My journey has taken a captivating turn towards software development driven by my love for programming and AI. My transition underscores my adaptability, to pursue what truly captivates me. I'm deeply passionate about exploring the realms of AI and its applications, not just in the software domain but also in mechanical industries, where innovation is paramount. I'm eager to channel my diverse background, to contribute meaningfully to innovative projects.

WORK EXPERIENCE

Software Engineer SOLIDWORKS AI-ML

Dassault Systems, Hinjewadi

Jun'23 - Present

- Skills: C++, JavaScript, Typescript, C#, Python, Computer Vision, Deep Learning
- 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

2 Months

- 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

- Skills: Ansys, Ansys products

Operations Intern

Cummins Ind. Pvt. Ltd. Phaltan Megasite

6 Months

- Worked on the Cycle time reduction and OEE improvement project of SU-DU Line.
- 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.
- Eliminated metal-to metal contact of 7 child parts by bin modification according to child part design thus reducing BIS customer issues.
- Studied Cycle Time and consolidated Standard work instruction Table(SWCT) for 41 stations of UL SU2.0 and UL DU2.0 Line.

- Skills: Six Sigma · Lean Manufacturing · Project Management · Overall equipment efficiency · Quality Improvement Tools · Product Quality

LANGUAGES

English ●●●●●●
Hindi ●●●●●●
German-A1 ●●●●●●
Marathi ●●●●●●

INTERESTS

Reading Novels

Micron Pen Art

Listening to Music

Playing Instruments

Project Intern

1 Month

Ordnance Factory Varangaon (OFV)
Department of Defence Production, Ministry of Defence

- Worked on the Study Project of the manufacturing process of AK-47 bullet cartridge case
- Worked on the identification of causes of case blackening issue of case of bullet
- Suggested & designed the solutions for the case blackening issue of case of bullet with project mentor.

EXTRACURRICULAR

- Instructor of Python workshop held by IEEE student branch
- Executive committee member in AI domain of IEEE student branch

SOCIAL WORK - Mentor in digital literacy programme for housewives & senior citizens called 'Aatmabodh' at VIT
- Fundraising Volunteer in "Tribune" fundraiser by IEEE SB VIT Pune
- Volunteer at NGO "Goonj"

- Social Media Head - IEEE Student Branch VIT Pune
Apr 2021- May 2022

Maintained interactions with students via social platforms when offline interactions were restricted on campus due to COVID.

PROJECTS

- Hand Gesture Detection Glove-

Worked on the interfacing of sensors with Arduino board and interfacing of different electrical components with rest of the hardware.

- Smart Rooftop

Sensor aided roof which will roll in when sensed rain with the help of BLDC motors. Simulated the Electric circuit of project in Proteus software and did the electrical assembly of project with team members.

- Alphabet-recognition-using-ANN
- Facemask-Detection-using-CNN
- NLP-Amazon-sentiment-Analysis

 <https://github.com/prachimahajan1012>

