

Pooja Goel

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Department of Computer Science and Engineering
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EDUCATION

Degree	Institution	CPI	Year
MTech	Indian Institute of Technology Gandhinagar	8.17	2022-Present
BTech	Meerut Institute of engineering and technology	86.9	2016 – 2020

EXPERIENCE

A.S.E-Trainee, Tata Consultancy Services

[May 2021-Aug 2022]

- Contributed to the **Plant Maintenance team's efforts on an SAP project** for Owens Corning.
- Spearheaded the functional aspect of various Fiori applications, encompassing: Requirement gathering from clients, Task delegation to the development team, Rigorous application testing, and Comprehensive documentation.
- Proactively addressed queries from numerous clients, enhancing client satisfaction.

Teaching Assistant, IIT Gandhinagar

[Dec 2022-Present]

- Introduction to computing:** Handled a class of 350+ students and handled various Python tutorial sessions.
- Probability, Statistics, and Data Visualization:** - Managed a batch of 20+ students and conducted lab sessions for Python data science libraries. Conducted exams and evaluations.
- Aarohan Foundation program:** Worked as a backend team for feedback and attendance compilation tasks.

Summer Intern, Silver touch technology

[May 2023-Present]

- Advanced Driving Test System,** Spearheaded the development of an Advanced Driving Test System, leveraging cutting edge technology for automated driver evaluations.
- Pioneered vehicle direction detection, Led object detection and image segmentation efforts

Summer Intern, Wipro— TalentNext Java -Project-Based Learning

[June 2019-July 2019]

- Immersed in a dynamic learning-based internship, gaining valuable insights into the development process.
- Crafted a responsive website, actively contributing to the front-end development.
- Acquired hands-on experience, harnessing the power of practical knowledge.

SKILL SUMMARY

- Languages:** C, C++, Python, HTML, SQL, CSS
- Tools and Libraries:** PyTorch, NumPy, Pandas, Matplotlib, OpenCV
- Technical:** Deep Learning, Machine Learning, Computer vision, K-Mean clustering, RNN, Transformers

PROJECTS

Motion Analysis using Computer Vision

[June 2023-Present]

- Actively pioneering computer vision solutions for precise motion analysis, with a specialized focus on object detection in occlusion scenarios.
- Currently conducting an in-depth review of various prior models and scholarly papers, including the influential Omni Motion framework to enhance expertise.

Maintenance portal: IIT Gandhinagar

[January 2023 – May 2023]

- Designed and developed a web application using Python and Flask framework to streamline complaint handling processes within the IIT Gandhinagar community.
- Enabled users to submit complaints related to various issues, such as electricity and furniture. Implemented robust database connectivity and managed all associated backend tasks.

Pandas vs. Parent Classification using VGG transfer learning

[April 2023- May 2023]

- Implemented various VGG architectures (VGG, VGG3, VGG16, VGG19) and an MLP classification model for classification tasks.
- Evaluated model performance and compared results using Tensorboard for visualization.

Dancing Ellipses

[Mar 2023-April 2023]

- Developed a two-feature dataset and employed Streamlit visualization platform to showcase the impact of cross-covariance through 3-sigma ellipse plots and sample distribution visualizations.

Android App for reselling Unused Medicine and Extracting Salt Content from Medicine Wrapper (Apni Pharmacy) [Sep 2019- Feb 2020]

- Developed an innovative Android application, addressing a critical issue in the medical field by facilitating the reselling of unused medicines. Designed a user-friendly interface with login and profile creation features, enhancing the app's accessibility.
- Leveraged Optical Character Recognition (OCR) technology to extract salt content information from medicine wrappers.
- Authored a research paper titled "Drug Context Extractor (An Application for Reselling Unused Medicine and Extracting Salt Content from Medicine Wrapper),"** published in the International Journal of Future Generation Communication and Networking, Volume 13, No. 3.

Achievements

- Achieved a **99.15% score** in the Graduate Aptitude Test in Engineering in 2022.
- Attained the UP Kanya Vidya Dhan Yojana scholarship from the UP government in recognition of outstanding academic performance.
- Wipro Talent Next Internship:** Got 9+ pointer in every assignments of Wipro Talent Next Internship program
- Received the TCS Gems On-the-Spot Team Award four times for outstanding team contributions and excellence in work.