

PRATHAM MITTAL

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Education

Thapar Institute of Engineering and Technology, Patiala

Sep 2020 - Present

Bachelor of Engineering in Computer Science

CGPA: 7.33

Fortune Convent School, Sangrur

Jul 2018 – Jul 2020

Central Board of Secondary Education (CBSE)

Percentage: 86%

Gen. Gurnam Singh Public School, Sangrur

Jul 2017 - Jul 2018

Central Board of Secondary Education (CBSE)

Percentage: 82%

Technical Skills

Languages/Database: React.js, Node.js, TypeORM, AWS, SQL, Flutter, Pytorch, TensorFlow, Dart, HTML/CSS, Javascript, TypeScript, Python, C/C++

Software & Tools: Photoshop, Figma, Vim

Experience

Mrikal Studios

Jan 2024 – Present

Software Engineer Intern

Gurugram

- Developed and maintained internal tools for MedVol, a service-based startup, using React, Node.js, and TypeORM.
- Pioneered the development of bulk employee and counter upload features, revolutionizing the process by:
 - * Introducing an innovative file validation system for CSV files, resulting in a remarkable reduction of processing time by up to 70
 - * Spearheading collaboration efforts with cross-functional teams to seamlessly integrate new features, injecting dynamism into the existing system architecture.
 - * Orchestrating the seamless transfer of validated files to an S3 bucket, orchestrating an automated event creation process via a triggered Lambda function.

Samsung Prism

Nov – Jun 2022

Research Intern

Patiala

- Developed and implemented real-time video processing methods to detect and remove aliasing caused in video calls, enhancing video quality and user experience.
- Achieved an impressive SSIM score of 0.8 (Accuracy of 80%)
- Led a 4-member team, serving as a vital liaison between the professor and the group's collaborative efforts.

Projects

Messenger App for iOS and Android | *Flutter, Firebase* [Git](#)

Jul – Aug 2023

- Developed a feature-rich messaging platform allows users to connect and communicate seamlessly through text and images.
- The app is built using Flutter for the frontend and integrates with Firebase for backend services, including authentication, real-time database, and storage.

Deep Learning based Super Resolution | *Computer Vision* [Git](#)

Nov – Dec 2022

- Implemented the Enhanced Deep Super-Resolution (EDSR) architecture in TensorFlow for single-image based super-resolution.
- Pretrained the model on DIV2K dataset to initialize weights and then applied transfer learning on a custom dataset for fine-tuning.

Hand Gesture-Based Brightness and Volume Control | *Computer Vision* [Git](#)

Jul – Aug 2022

- Developed a macOS project utilizing OpenCV and pyObj for controlling brightness and volume through hand gestures.
- Utilized Open-CV for image processing and pyObject for seamless integration with macOS system controls.

Language translator using Transformers | *Natural Language Processing* [Git](#)

Mar – Apr 2023

- Developed a language translation system using a transformer model and attention mechanism in PyTorch.
- Achieved improved translation accuracy and fluency compared to traditional methods.

Position Of Responsibility

Design Head | Backslash Computing Society

Jul 2020 - Jun 2022

- Orchestrated "Labyrinth," a cryptic event, as the behind-the-scenes coordinator, responsible for storyline planning, poster design, and all logistical aspects, garnering positive acclaim from participants.

Certifications and Achievements

Flutter and Dart Course

Secured the 3rd position at "Synchronic" organized by Backslash.