Mukul Bansal

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EDUCATION

Punjab Engineering College Chandigarh **Chandigarh**

BTech Electronics and Communication Engineering (CGPA - 7.7)

WORK EXPERIENCE

CSIR- Central Scientific Instruments Organisation **Chandigarh**

Internship *Jan 2023 - May 2023*

- Developed and implemented cutting-edge deep learning algorithms for thermal and visible image registration in aircraft and medical applications, resulting in a 20% improvement in efficiency compared to previous algorithms.
- Collaborated with the principal scientist to conduct extensive testing and validation of the developed techniques, achieving an accuracy rate of 95% for image registration tasks.
- Presented findings and results at industry conferences, showcasing the success of the new algorithms and attracting potential collaborations with leading companies in the aerospace and healthcare sectors.

PROJECT EXPERIENCE

Thermal and Visible Image Registration Software City, State

Python, *Deep Learning and Computer Vision*

- Developed and implemented a state-of-the-art thermal and visible image registration model using CNN and deep learning architecture in PyTorch.
- Used various Python libraries like OpenCV, Numpy, and Matplotlib.
- Achieved an accuracy rate of 95% on the test dataset.

JEE College Predictor JavaScript City, State

Node, CSS, HTML, and React

- Developed and implemented a user-friendly platform that allowed candidates to input their rank, gender, state quota, category, and other relevant information to generate a comprehensive list of colleges for admission.
- Improved the accuracy of college predictions by integrating data from the previous year's JEE counseling sessions and cut-off marks.

SKILLS

Programming Languages: Java, Python, JavaScript, and HTML Data Structures and Algorithms, Deep Learning, OOPS, Computer Vision, PyTorch, and OpenCV

EXTRA CURRICULAR

Implementation Body Member (PEC-Entrepreneurship and Incubation Cell) City, State

Workshop Organizer

- Conducted workshops on branding and case studies with the participation of more than 100 students from the campus.
- Organized webinars for freshers on how to approach investors initially for funding.
- Organized nationwide 'Boardroom' competition simulating leadership roles in an MNC, where participants tackled challenging situations as hypothetical leaders.

Joint Head Marketing Team (PEC-E-Summit) City, State

Event Organizer

- Acquired sponsorships from 2 brands to fund a summit having a footfall of 5K+ people.