

Kartik Bansal

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EDUCATION

BE in CSE with specialization in AIML, Chandigarh University – CGPA- 8.10

Jun '25

SKILLS

Languages: C, C++, Java, Python

Machine Learning: NumPy, Pandas, Matplotlib, Seaborn, NLTK, Scikit Learn, TensorFlow, Google Colab Notebook

Web: HTML, CSS, JavaScript, WordPress, SEO

Coursework: Data Structures, Operating System, Computer Networks, Big Data Analytics, Database Management

WORK EXPERIENCE

Chairperson | IEEE CIS CUSB

Jan '24 – Present

- Leading a team of **30 members** overseeing **Strategic Planning, Technical, Marketing, Operations** and **Event Coordination**.
- Optimized Event Planning strategies resulting in a **100% increment in attendee engagement and satisfaction**.
- Conducted over **20 events** including Technical Hackathons, Bootcamps, Workshops, and Sessions, **fostering teamwork, mentorship**, and a **collaborative spirit** among members.

Secretary | IEEE CUSB

Jul '23 – Present

- Played a key role in maintaining **accurate records** and **documentation** demonstrating **organizational skills** and **attention to details**.
- Facilitated **seamless communication** between society members, leadership, and external stakeholders, fostering **strong interpersonal relationships** and **effective collaboration**.
- Coordinated meetings**, events, and **logistical details**, contributing to the **smooth operation** and success of the society's initiatives.

PROJECTS

Intrusion Detection System using CNN and Random Forest

Jan '24

- Conducted a comprehensive investigation into the performance of Convolutional Neural Networks (CNN) and Random Forest models for Intrusion Detection System (IDS) tasks in network environments, showcasing a thorough understanding of machine learning methodologies applied to cybersecurity challenges.
- Presented findings indicating that both CNN and Random Forest models exhibit promising accuracy rates for identifying network intrusions, with the CNN model achieving a slightly higher accuracy. Emphasized the importance of considering factors such as interpretability, scalability, and computational complexity.
- CNN, Random Forst, Pandas, Seaborn, Matplotlib, Keras, Scikit-Learn, Jupyter Notebook.**

Acne Skin Disease Detection Using CNN

Sep '23 - Dec '23

- Led groundbreaking research on acne detection using Convolutional Neural Networks (CNN), achieving an accuracy of 97.96%. Implemented the VGG19 architecture, revolutionizing early dermatological intervention.
- Addressed challenges in acne detection, including dataset diversity, class imbalance, and model refinement, showcasing adaptability and problem-solving skills to optimize CNN-based systems for dermatological diagnosis.
- Research Paper Published** DOI: 10.1109/ICTACS59847.2023 | [IEEE Explore](#)
- CNN, VGG19, ResNet152, Scikit Learn, Matplotlib, TensorFlow, Jupyter Notebook.**

E- Commerce Medical Website |

Jan '23

- Developed an e-commerce medical website catering to the healthcare industry's needs by providing a user-friendly platform for purchasing medical supplies and equipment online, ensuring convenience and accessibility for both medical professionals and patients.
- WordPress, PHP, MySQL, HTML, CSS, SEO, DNS

ACHIEVEMENTS & PROFESSIONAL DEVELOPMENT

- Secured 3rd position **SLB Data Innovation Challenge – IIT ROORKEE**
- Achieved **Top 3** Position in **Null Void** organized by IEEE Computational Intelligence Society | [Certificate](#)
- Advance Machine Learning – Google Cloud | [Certificate](#)
- Getting Started with Machine Learning | [Certificate](#).
- Introduction to Data Science – IBM | [Certificate](#)
- Introduction to programming through C++ - IIT Bombay | [Certificate](#)

