



Abdul Basit Habib
UG (IV Year I Semester)
B.Tech. (Biosciences and Bioengineering)
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Registration No: 21111002/2025

Indian Institute of
Technology
Roorkee

VERIFIED

Education

Year	Degree/Examination	Institution/Board	CGPA/ Percentage
2024	B.Tech. 4th Year	Indian Institute of Technology, Roorkee	7.452
2020	Intermediate (Class XII)	Nezamia Public School, Patna [CBSE]	90.20 %
2018	Matriculate (Class X)	Kerala Samajam Model School	95.40 %

Internships

- ML Intern(Computer Vision)** | Genetics & Bioengineering Lab, IIT RoorkeeJanuary 2024 - April 2024
- Utilized techniques like U-Net and Mask R-CNN to segment burn-affected areas in medical images of patients
 - Applied Deep learning models, such as CNNs and transfer learning with **ResNet** and VGG, to classify burn severity and identify exposed skin layers, enhancing model accuracy with data augmentation and cross-validation techniques
- Data Science Intern** | WorkEaseJune 2023 - August 2023
- Developed **AI Chatbot** using **RAG** techniques for streamlined and smooth customer booking process and resolving query
 - Applied advanced machine learning models and **image segmentation** for profile verification and service categorization

Projects

- AI driven Health Diagnosis Platform** | Self ProjectApril 2024 - June 2024
- Developed an AI-powered medical diagnosis tool utilizing models like VGG19 for COVID-19 Detection achieving **96.1%** accuracy, U-Net for Brain Tumor Segmentation with an accuracy of **99.08%** and DenseNET for Chest Xray Analysis
 - Deployed the platform on **AWS** for scalable and reliable access to users
- Tech-Enhanced AI Interview Learning Platform** | TechShila - Inter Bhawan Tech Meet '24March 2024 - April 2024
- Created an AI Interview Chatbot using **LLAMA-2** that can generate questions to simulate real life interviews
 - Used various models including **BERT-GED** for grammar and achieved BLEU score of **0.96** and SUS score of **112.50**
- Autonomous Driven Vehicle** | IIT RoorkeeJanuary 2024 - Present
- Developed a 3D car model integrating IITR map, equipped with distance sensors, cameras for environment perception
 - Current Progress: Applied **R-CNN** to train the vehicle for object detection and recognition tasks in **Webots**
 - Future plans: Implementing the trained model into a miniature car embedded with **LIDAR sensors** and cameras
- AccioJob's Multilingual Video Translation Challenge** | TechShila - Inter Bhawan Tech Meet '23April 2023
- Generated an AI pipeline that can dub the speech from Hinglish to Telugu while preserving the voice quality and emotion
 - Used **IndicTrans Transformer model** for Translation and Open AI Whisper for STT conversion achieving 93% Accuracy
- Protein Structure Prediction** | BSBE Department, IIT RoorkeeMarch 2023 - April 2023
- Mastered the use of **CCP4i2** to predict the primary protein structure using data collected from its X-Ray Crystallography
 - Understood and implemented rotamer analysis, Ramachandran Plot, site-directed mutagenesis & refinement techniques

Awards / Scholarships / Academic Achievements

- Awarded the 1st Position in Futsal Competition at Aakrosh'24
- Adjudged 1st Runner up in Multilingual Video Translation Challenge - TechShila: Inter Bhawan Tech Meet '23
- Declared 1st Runner-Up in Online Short Film Making Competition at the Inter-Bhawan General Championship 2024

Skills

Computer languages	C++, Python
Software Packages	Git, Tensorflow, PyTorch, Sci-Kit Learn, MySQL, Github, Pandas, NumPy
Languages Known	Hindi(SRW), English(SRW)

Positions of Responsibility & Extra Curriculars

- Additional Secretary** | Spic Macay, IIT RoorkeeJuly 2024 - September 2024
- Spearheaded a team of 50+ members to manage an 8-day cultural event featuring 10+ renowned artists, including **5-PADMA SHRI Awardees** and **2-GRAMMY Winners**, ensuring seamless execution and exceptional success.
 - Boosted audience influx by **50%** through effective promotional strategies, enhancing event visibility and engagement.
- Finance Coordinator** | UBA, IIT RoorkeeFebruary 2022 - May 2023
- Initially worked as a volunteer and successfully completed **Water Filter Setup** for the welfare of 1000+ villagers.
 - Assumed the primary responsibility of overseeing and managing the financial aspects and **budget** of all the initiatives.
- Associate Coordinator** | Placement and Internship Cell, IIT RoorkeeOctober 2022 - Present
- Interacted with **100+ companies** to visit the campus for the smooth placement and internship of 2200+ students.
 - Managed the database of more than **3000 students** and generated reports on placement statistics and trends.