



Ayush Bilkhiwal

Roll No.: CS23M119

M.Tech - Computer Science and Engineering

Indian Institute Of Technology, Tirupati

+91-8769871500

cs23m119@iittp.ac.in

bilkhiwalayush@gmail.com

Github | LinkedIn

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
M.Tech	Indian Institute of Technology, Tirupati	8.20	2023-Present
B.Tech	Bikaner Technical University, Bikaner	9.25	2019-2023
Intermediate/+2	Board of Secondary Education, Rajasthan	78.40	2018
Matriculation	Board of Secondary Education, Rajasthan	95.67	2016

EXPERIENCE

- Teaching Assistant | Data Science - IIT Tirupati** Jan. 2024 - July. 2024
 - Assisted in teaching programming concepts and providing support to over 240 students.
 - Joined department meetings to discuss teaching methods and evaluation strategies.
- Teaching Assistant | Advanced Data Structure and Algorithms-IIT Tirupati** Jan. 2024 - July. 2024
 - Supported over 90 students by resolving advanced data structures and algorithms problems.
 - Supervised lab, giving timely feedback and suggestions to students to help them improve.
- International Institute of Information Technology, Hyderabad | Summer School** Jun. 2022 - Aug. 2022
 - Along with 2 teammates, developed a Neural Machine Translation project translating from English to North-Eastern languages.

PROJECTS

- Small Oriented Object Detection in Aerial Images** Jan. 2024 - Present
Guide: Dr. Chalavadi Vishnu
Reference Paper
 - Spearheaded the deployment of the Attention-Points Network, using **Guided-Attention loss** and **Box-Points loss** resulting in a significant reduction in false positives and false negatives.
 - Leading to a **7.5 % improvement in overall detection performance**.
- MediFirst** Jan. 2024 - June. 2024
Guide: Dr. Shridhar Chimalakonda
GitHub
 - MediFirst, an all-in-one health management application, in **Android Studio** using **Flutter**, seamlessly integrating Firebase database functionality.
 - Empowered users with a comprehensive platform for managing health-related activities and appointments.
 - Integrated with **Firebase** and **Google Maps API** for real-time tracking and navigation, which enhanced the efficiency of ambulance dispatch and reduced the time to reach emergency locations.
- Blog Hub**
Self Guided
 - Developed an interactive blogging platform that supports user authentication and allows for seamless content management. Users can register, log in, create, publish, and view blog posts contributed by the community.
 - Used Flask framework, MySQL, HTML, CSS.

SKILLS

- Programming Scripting Languages::** C, C++, Python, Java, Bash, MySQL, JavaScript, HTML, CSS
- Tools Libraries::** Numpy, Pandas, Sci-kit learn, PyTorch, Git, GitHub, Jupyter Notebook, VS Code
- Frameworks and Technologies:** Flask, Flutter, Web Development, Android Development
- Soft Skills::** Communication, Creative Problem-solving, Leadership, Team Coordination, Team Management
- Data Science:** Machine Learning, Deep Learning, Natural Language Processing

COURSEWORK

- Courses:** Operating System, Advance Data Structure and Algorithm, Programming Languages, Object Oriented Programming, Parallel Computing, Computer System Architecture, Distributed Systems, Cyber Security

KEY RESPONSIBILITIES AND ACHIEVEMENTS

- Placement Representative**, Coordinating placement activities and facilitating communication between students and recruiters.
- Lead Anchor**, Served as the lead anchor for the Annual Fest, successfully managing an audience of 1,000+ attendees.
- Gold Medal**, Awarded gold medals for academic excellence and co-curricular achievements in my B.Tech degree.
- Sports**, Recognized as Most Valuable Player in Cricket, Badminton, and Table Tennis.