

Cebajel Tanan

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in cebajel-tanan-144695260 🌐 Cebajel

Education

Indian Institute of Technology Dharwad

Nov 2021 – May 2025

Bachelor of Technology in Computer Science and Engineering

CGPA: 9.74/10

Ranked 2nd in a class of 70 students.

Coursework: Data Structures and Algorithm, Computer Architecture, Artificial Intelligence, Linear Algebra, Discrete Structure, Mathematics for Data Science, Computer Networks, Design and Analysis of Algorithms, Operating Systems

Experience

Texas Instruments, Software Development Intern

May 2024 – July 2024

- Designed a python program which fetched information from Jira, Confluence and Klocwork servers and generated a report to analyze pending issues to be implemented.
- Optimized existing scripts used for analyzing issues in the development of projects at Texas Instruments from an average runtime of **8-10 hours** to **22-30 minutes**.
- Received a Pre-Placement Offer (PPO) based on outstanding performance and contributions.

Contact: Rajat Mehrotra ✉ rajatm@ti.com

IP Analyzer, Cybersecurity Intern

May 2023 – Present

- Developed a web application capable of recognizing black listed IP addresses and domains along with relevant database where it is blacklisted and the reason.
- Designed application queries **150** grey list databases for evaluating host reputation.
- Used **MAD stack** for developing the application ensuring scalability, modularity and responsiveness.
- Hosted at ipanalyzer.in 🔗

Contact: Prof. Sameer Kulkarni ✉ sameergk@iitgn.ac.in

Automated Timetable Scheduler, Research Intern

Jan 2023 – Sept 2023

- Developed a framework capable of creating a timetable catering to needs of any institute considering all general constraints for students, professors, campus, venue capacity etc.
- Framework easily handles **16** different constraints on **100+ courses** and **6000+ registrations!**

Contact: Prof. Tamal Das ✉ tamal@iitdh.ac.in

Bacterial Resistance Prediction, Data Science Intern

Jan 2023 – Nov 2024

- Used several ML models for analyzing Raman spectroscopy data from 3 bacterial strains.
- Developed an application which classifies bacterial resistance against Colistin with **97% accuracy** using Raman spectroscopy data.

Contact: Prof. Surya Pratap Singh ✉ ssingh@iitdh.ac.in

Skills

Languages: Python, C++, JavaScript, Typescript, C, Java, SQL, PHP

Technologies: MongoDB, Neo4J, Redis, Postgre SQL, My SQL, Django, Angular, Nginx, JIRA, Confluence, Klocwork, Orange3, Gurobi

Topics: Convolution Neural Networks, Recommender Systems, Deep Neural Networks, Machine Learning, Generative Adversarial Networks, Time Series Analysis, Constraint Satisfaction Problems, Multi-Objective Optimization

Publications

- Cebajel Tanan**, Sameer Kulkarni, Tamal Das and Manjesh Hanawal, “**A Multi-Functional Web Tool for Comprehensive Threat Detection Through IP Address Analysis**,” IEEE Conference on Engineering Informatics (ICEI), Dharwad, India. Nov 2024
icei2024.iitdh.ac.in/programs
- Dimple Saikia, **Cebajel Tanan**, G. Dhananjaya, Basavraj Hungund, Nilkamal Mahanta, and Surya P. Singh. Nov 2024
“**Validating phosphoethanolamine modification as a potential spectral marker of colistin resistance.**” Analyst (2024).
[10.1039/D4AN01228C](https://doi.org/10.1039/D4AN01228C)
- Dimple Saikia, Arunsree Vijay, **Cebajel Tanan**, Surya P. Singh. Nov 2024
“**Validating the utility of heavy water (Deuterium Oxide) as a potential Raman spectroscopic probe for identification of antibiotic resistance.**” Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 321 (2024): 124723.
[10.1016/j.saa.2024.124723](https://doi.org/10.1016/j.saa.2024.124723)
- Dimple Saikia, **Cebajel Tanan**, G. Dhananjaya, Basavraj Hungund, Nilkamal Mahanta, and Surya P. Singh. Jun 2024
“**Machine learning assisted Raman spectroscopy to discern the markers associated with colistin Resistance.**”(2024).
[Link To Preprint](#)
- Cebajel Tanan**, Sameer Kulkarni, Tamal Das and Manjesh Hanawal, “**A Tool for Comprehensive IP Address Analysis**,” International Conference on COMMunication Systems & NETWORKS Demo. Nov 2024
Submitted [Link](#)

Certificates

- Machine Learning Specialization [Link](#) – Completed 8 different courses Nov 2022 – Dec 2022
- Google Cybersecurity [Link](#) – Cybersecurity Course by Google May 2023 – July 2023
- Google Cybersecurity Badge [Link](#) – Badge awarded for completing Google Cybersecurity Course May 2023 – July 2023
- CERTIn Certificate [Link](#) – 12th Inter-IIT Tech Meet hosted by IIT Madras Dec 2023
- ICEI Certificate [Link](#) – Awarded for presenting paper and poster at IEEE Conference on Engineering Informatics (ICEI), Dharwad Nov 2024
- Indo-Finnish Joint Course Certificate [Link](#) – Awarded for delivering a lecture on significance of Game Theory in sustainable development at [Indo-Finnish Joint Course 2024](#) Nov 2024

Achievements

- Achieved **GPA 10** on a scale of 10 in **two consecutive semesters** in bachelors. Aug 2022 - April 2023
- Performed in **top 1%** Class XII Gujarat State Board examination. April 2020
- Awarded Scholarship** for Higher Education (SHE) under Innovation in Science Pursuit for Inspired Research (INSPIRE) scheme
- Secured **3rd place** in lawn tennis at the **Khel Maha Kumbh** Gujarat. Oct 2017

Extracurricular

- Delivered a lecture** on significance of game theory on sustainable development at [Indo-Finnish Joint Course](#) [Link](#) held at IIT Dharwad. Sept 2024
- Represented** IIT Dharwad at **12th Inter-IIT Tech Meet** hosted by IIT Madras. Dec 2023
- Participated** in Inter Hostel General Championship 2022 in **lawn tennis**. Dec 2023