



EDUCATION

Course	Institute	Result	Year of Passing
M.Tech (CSE)	Indian Institute of Technology, Jammu	7.4 (Current)	Expected Jul 2025
B.Tech (CSE)	Girijananda Chowdhury Institute of Management and Technology	8.69	2021
12th Standard	Science College Kokrajhar	73%	2017
10th Standard	B.P.C.M Baby Land English Medium High School	80%	2015

PROJECTS

- Dynamic Rule Management in 5G Network** Aug 2024 - Present
Researcher, IIT Jammu
 - Implemented a 5G core network using Open5GS Helm charts on a Kubernetes cluster.
 - Customized the Docker image for the User Plane Function (UPF) to incorporate Suricata IDS.
 - Configured Suricata integration to enable real-time packet monitoring and logging.
 - Conducted comprehensive testing and debugging using Minikube for initial local Kubernetes setup.
 - In the process of integrating machine learning models for advanced analysis of network flow data.
- Link Scraper and Summarizer** Oct 2024
Full Stack Developer, IIT Jammu
 - Developed a Django web app with MVT architecture for web content scraping and summarization.
 - Implemented URL submission and request handling with Django forms for user-friendly interaction.
 - Leveraged BeautifulSoup and Newspaper3k to extract and summarize web data.
- Social Media Clone** Jun 2024 - Jul 2024
Full Stack Developer, IIT Jammu
 - Created robust and scalable social media web application using Django's MVT architecture.
 - Integrated secure user authentication with Django's built-in system and utilized SQLite for data storage.
 - Created user-friendly features such as group creation, post creation, and comment capabilities.
- Estimation of Chlorophyll Value from Digital Images using Machine Learning** Aug 2020 - Jul 2021
Girijananda Chowdhury Institute of Management and Technology
 - Created a Dataset and implemented machine learning models to estimate chlorophyll content in tea leaves.
 - Utilized MLR, SVR, and ANN models to improve accuracy, with MLR and ANN achieving an R^2 of 0.711.
 - Evaluated model performance using metrics such as MAE, MSE, RMSE, and R^2 , showcasing the success of MLR and ANN.

TECHNICAL SKILLS

- Programming Languages:** Python, C++, C, Java
- Web Development:** Django, HTML, CSS
- Database:** SQL
- Tools/Software:** Ubuntu, Suricata, Jupyter Notebook, Docker, Kubernetes, Minikube, Visual Studio, Helm

PUBLICATIONS

- Bhokta, G., Barman, U., Choudhury, R.D., Talukdar, B.K., Choudhari, S.A., & Saikia, A. (2021). Smartphone assist deep neural network model to recognize the high-quality tea using leaf maturity and its effect on leaf chlorophyll. *Journal of Applied and Natural Science*, 13 (4), 1249-1255. DOI

ADDITIONAL DETAILS

- **Achievements and Awards:**

- Achieved a score of 323 and 532 on the GATE (Graduate Aptitude Test in Engineering) in 2022 and 2023.
- Achieved 3rd rank in Assam Science and Technology University Hackathon 2018.
- Achieved 2nd rank in programming competition organized by NERIM Guwahati.
- Solved over 300+ Coding Problems.

- **Certifications:**

- Practical Machine Learning with TensorFlow, NPTEL (IIT Madras).
- Python for Data Science, NPTEL (IIT Madras).
- Introduction to Machine Learning, NPTEL (IIT Madras).
- Programming Data Structures and Algorithms using Python, NPTEL (IIT Madras).
- Python and Django Full Stack Web Developer Bootcamp (Udemy).

- **Positions of Responsibility:**

- Teaching Assistant for Python Lab at IIT Jammu, 2023.
- Teaching Assistant for Theory of Computation at IIT Jammu, 2024.
- Teaching Assistant for Operating System at IIT Jammu, 2024.

- **Workshops and Training Attended:**

- Python Spoken Tutorial Project, IIT Bombay.
- Machine Learning, CETPA Infotech Pvt. Ltd.

- **Hobbies and Languages:**

- Hobbies: Photography, Gardening.
- Languages: English, Hindi, Sadri, Bengali, Assamese.