

# SUBRADEEP DAS

Agartala, Tripura

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LinkedIn

GitHub

Portfolio

Date of Birth: 24 Jan 2002

Nationality: Indian

Languages: English, Hindi, Bengali

## EDUCATION & CERTIFICATIONS

### C-DAC, Guwahati

Advanced Certification Course in (HPC-AI) - **67.08%**

Mar 2025 – Aug 2025

Guwahati, Assam

### North-Eastern Hill University, Shillong

B.Tech - Electronics and Communication Engineering – **CGPA: 7.37**

2020 – 2024

Shillong, Meghalaya

### Swami Dhananjoy Das Kathia Baba Mission School, Agartala

Intermediate - Central Board Of Secondary Education – **69.8%**

2018 – 2020

Agartala, Tripura

### Henry Derozio Academy H.S School, Agartala

Matriculation - Tripura Board Of Secondary Education – **75%**

2017 – 2018

Agartala, Tripura

## PROJECTS

### Hybrid IRCTC Bot-Detection and Train Search Web App

Mar 2025 – Aug 2025

- Hybrid human-verification (image CAPTCHA + behavioral biometrics) with a TensorFlow DNN classifier for human/bot detection.
- Train search UI showing demand heatmaps, punctuality, and Random-Forest based ticket confirmation probability.
- Auto-retraining pipelines, privacy-preserving telemetry, admin audit logs; deployed (Flask, Docker, Nginx).

### Design & Fabrication of Higher-Order Chebyshev Filter

Feb 2024 – Jul 2024

- Designed a 7th-order Mach-Zehnder interferometer filter; simulated (Lumerical), layout (KLayout), fabricated on SOI via EBL.
- Performed Monte Carlo analysis for fabrication variability; applications in telecom and medical electronics.

## TECHNICAL SKILLS

- Languages:** Python, R, Java, SQL
- Machine Learning:** scikit-learn, XGBoost, regression, classification, clustering, model optimization
- Deep Learning:** TensorFlow, PyTorch, Keras, CNN, RNN, LSTM, transfer learning
- Data Analytics:** Pandas, NumPy, dplyr, tidyr, statistical analysis
- Visualization:** Matplotlib, Seaborn, ggplot2, Plotly
- Tools & Platforms:** Jupyter, Colab, Kaggle, VS Code
- OS & Scripting:** Linux, Bash

## LICENSES & CERTIFICATIONS

### Quantum Computing

C-DAC Hyderabad

Jun 2025

Credential ID: CDACH/QML/2034

### AI/ML for Crop Acreage Mapping

Indian Institute of Remote Sensing (IIRS), ISRO

Apr 2025

Credential ID: 2025234601756

### Geodata Processing with Python & ML

Indian Institute of Remote Sensing (IIRS), ISRO

Mar 2025

Credential ID: 2025234601756

### TCS iON Career Edge – Young Professional

TCS iON

Feb 2025

Credential ID: 119854-27331871-1016

## EXTRA-CURRICULAR

- Member, Lightwave Communication Laboratory, NEHU — organized photonics workshops; completed lab project under Prof. Subhash Arya.

## HOBBIES

- Learning new languages
- Travelling to explore new cultures
- Cooking diverse cuisines