Ayush Anand

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SUMMARY

A dedicated and highly motivated Undergraduate Computer Science Student with sound experience in data science and analysis, and machine learning especially Deep Learning. A hard working and passionate student with proven experience in mining, processing, and bringing out interesting trends from open-data.

EDUCATION

National Institute of Technology Durgapur, India

Bachelor of Technology in Computer Science and Engineering — GPA: 8.79/10 *Expected 2025*

- *Courses: Linear and Vector Algebra, Calculus, Data Structure and Algorithms*
- Organisations: Indian Society for Technical Education (ISTE)

SKILLS & INTERESTS

Programming Languages	Python, JavaScript, MySQL, C
Libraries/Tools	PyTorch, NodeJS, TensorFlow, Pandas, Matplotlib, Numpy ReactJS, Scikit-learn, OpenCV, Git, VS Code
Technologies	Firebase, IBM Cloud, Microsoft Azure, Vercel, Netlify

EXPERIENCE

Google Summer of Code 2022 participant with IOOS Virginia, US — Remore

Integrated Ocean Observing System (IOOS) May 2022 - present

- Revamped the *pyobis* python package to integrate with the new OBIS API, ensuring quality by increasing the unit test coverage to 100% for all modules. *github.com/iobis/pyobis*. Currently under development.
- Extrapolated data visualization tools to bring out insights into migration patterns, and species population among others from data captured through all 7 OBIS nodes globally.

PROJECTS

Predicting Particle Collision in CERN CMS Created a Linear Sequential Model to detect particle collision using CERN CMS Collision Detection data, achieving over 98.88% accuracy. Source on GitHub

NephronAI — Fighting chronic kidney disease using machine learning. Built a web-based accessible tool for individuals, practicing physicians, hospitals, to detect chronic kidney disease with 99%+ accuracy based on a Random Forest model, get the underlying cause using Fuzzy logic, and recommended change in lifestyle to help tackle the disease. Source on GitHub

Saathi — Stopping unreported abuses. Built a Natural Language Processing (NLP) based chatbot that supports women and victims of abuse, simultaneously safeguarding their privacy by generating anonymised 16 digit tokens with 100% security focused design. Source on GitHub

ACHIEVEMENTS

- Secured an **All India Rank 6** in Grade 12 exams by Central Board of Secondary Education, India. Was felicitated by the Director of my school for it.
- Secured **99.30%ile** in IIT-JEE Mains Exam (among 9.34 lakh aspirants).

CERTIFICATES

Deep Learning Nanodegree *from Udacity* Apr 2020

- Learnt ANNs, CNNs, RNNs and LSTM, GANs and model deployment using AWS Sagemaker. Succesfully completed and passed all assignments with 100% grades.

AI from Data Center to the Edge *from Intel Corporation* Nov 2019

- Performed Exploratory Data Analysis, decision metrics for choosing a framework and network to train and deploy deep learning models using TensorFlow with Intel optimizations, and deploying on the CPU, Integrated Graphics and Intel® NCS using the Intel® OpenVINO™ Toolkit.