

Naivedya Rai

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EDUCATION

SYMBIOSIS INSTITUTE OF TECHNOLOGY

BTECH IN COMPUTER SCIENCE
June 2020 - June 2024 (Expected)
CGPA : 7.7 / 10 (upto 6th sem)

Clubs and Activities:

Google Student Developer Club

PRATIBHA JUNIOR COLLEGE

HSC IN SCIENCE (CLASS XII)
Grade : First Distinction | 2020

WISDOM WORLD SCHOOL

ICSE (CLASS X)
Percentage : 91.4% | 2018

LINKS

Github:// [Navi](#)
LinkedIn:// [NaivedyaRai](#)
GeeksforGeeks:// [NaivedyaRai](#)
Hackerrank:// [NaivedyaRai](#)

COURSEWORK

Data Structures & Algorithms | Design & Analysis of Algorithms | Object Oriented Programming | Computer Networks | Operating Systems | Data Science | Machine Learning | Cloud Computing | Database Management System

SKILLS

PROGRAMMING

Java • Python • C/C++ • HTML • CSS
JavaScript • MySQL • R

FRAMEWORKS

Scikit-learn • Matplotlib • TensorFlow
Pandas • Numpy

MISC

Data Analytics • MS Word • MS Excel
Latex • MS PowerPoint • Git • GitHub

PUBLICATIONS

• D. Dharrao, N. Rai, M. Misal, N. Joshi and S. Rajagopalan. **Aircraft fuel flow modeling and performance optimization using machine learning.** (In review) [Paper](#)

EXPERIENCE

BEING VOLUNTEER | SOFTWARE DEVELOPER INTERN

July 2022 - November 2022 | Pune, India | [App-Video](#)

- Built a cross-platform application (GreenDot) to identify and geologically tag **1000+** plants based on their location.
- Led a team of **4** and carried out data collection for the project
- Worked on the backend using **Firestore** and used **Dart** and **flutter** for the app

SYMBIOSIS INSTITUTE OF TECHNOLOGY | ML RESEARCH

Jan 2023 - Present | Pune, India

- Carrying out **machine learning research** under Dr. Deepak Dharao for aircraft fuel flow performance optimization.
- Using machine learning to **develop** precise fuel flow models using full-flight data, yielding significant aviation industry benefits.

PROJECTS

AIRCRAFT FUEL FLOW RATE PREDICTOR | [GITHUB](#)

- Conducted feature engineering, refining **226** variables into **63** key features for data analysis.
- Employed a unique **deep-learning** approach for precise modeling.
- Attained **99.25%** adjusted R2 score for model accuracy.

FAKE NEWS CLASSIFIER USING NLP | [GITHUB](#)

- Compared results of **5 models** across different performance measures
- Utilized several classifiers, achieving an **accuracy** score of **98.7%** using **Logistic Regression**
- Used **Matplotlib** and **Seaborn** to create visualizations for data analysis and model comparison

PAYROLL MANAGEMENT SYSTEM | [GITHUB](#)

- System to keep track of employee salaries, taxes, additional costs, etc.
- Used **Java**, **Swing** and **NetBeans** for the front end and **MySQL** for the back end

CERTIFICATIONS

- Complete Python Bootcamp | [Udemy](#)
- Mastering Data Structures & Algorithms using C and C++ | [Udemy](#)
- Machine Learning Specialization by Andrew Ng | [Coursera](#)

ACHIEVEMENTS

- Institute Rank **19/1412** on [GeeksforGeeks](#)
- **5 Stars** in SQL on [HackerRank](#)
- Selected for an Academic Internship in Data Analytics at The National University of Singapore (2022)
- **1st** place in an Inter-school cubing competition & top 20 in several National level competitions
- Table Tennis Team (Won **4** Medals)