

# Naivedya Rai

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## Personal Profile

A Final year Undergraduate student at Symbiosis Institute of Technology who is enrolled in the Computer Science Programme. Dedicated to Software Engineering, with a solid foundation built over a year of industry experience through multiple internships. Proficient in Machine Learning, Data Analysis, and Software Development, my passion lies in utilizing data-driven solutions to drive positive impact within the tech industry. Incoming Software Development Intern at AvignaAI.

## Education

### Symbiosis Institute of Technology

Pune, India

Bachelor of Technology in Computer Science and Engineering

June 2024(Expected)

- **CGPA: 7.7/10** (upto 6th Semester)
- **Clubs and Activities:** Google Student Developer Club, AI Club, Table-Tennis Team (Won 4 medals), Football Team
- **Courses:** Data Structures & Algorithms, Design & Analysis of Algorithms, Computer Networks, Object-Oriented Programming, Data Science, Operating Systems, Machine Learning, Cloud Computing, Database Management Systems, Big Data, Full-stack Development, Cyber Security

### Pratibha Junior College

Pune, India

HSC in Science(Class XII)

2020

- **Grade : First Class**
- **Courses:** Physics, Chemistry, Mathematics & Computer Science

### Wisdom World School

Pune, India

ICSE(Class X)

2018

- **Grade : 91.4%**
- **Courses:** Physics, Chemistry, Mathematics & Computer Science

## Work Experience

### Recktronic Devices & Systems

Pune, India

Software Engineer Intern

June 2023 - Sept 2023

- Used Enterprise data to **train** an **LLM** to accurately answer Company FAQs.
- **Analysed** device sensor data to improve efficiency using Python.
- Worked with **LangChain, PowerBi & SCADA** and **built PowerBi** dashboards.
- Worked on developing an in-house application using **React**.
- **Technical Skills:** Python, LangChain, PowerBi, SCADA, Excel, React.

### Being Volunteer Foundation

Pune, India

Software Developer Intern | App-Video

June 2022 - Nov 2022

- 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 **Firebase** and **MySQL**, used **Dart** and **flutter** for development.
- **Technical Skills:** MySQL, Dart, Flutter, Firebase, Git, Github.

## Research Experience

### Symbiosis Institute of Technology

Pune, India

Machine Learning Research

June 2023 - Present

- Conducting in-depth **research** under Dr. Deepak Parashar on stock market patterns, applying cutting-edge **AI/ML** methodologies.
- Employed machine learning to enhance trading strategies, **optimize** decision-making, and improve overall market performance.
- **Developed** a model utilizing **Artificial Neural Networks & Linear Regression** and achieved a low RMSE.
- **Technical Skills:** AI/ML, Python, Deep Learning, Linear Regression, ANN, Algorithmic Trading, Git, API, AWS.

### Symbiosis Institute of Technology

Pune, India

Machine Learning Research

Jan 2023 - May 2023

- Carried 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.
- **Authored** a research paper documenting and analyzing findings, researching innovative approaches distinct from conventional methods.
- **Technical Skills:** Python, AI/ML, Deep learning, Scikit-learn, Git.

## Projects

### CodeCanvas : DS & Algo Explorer | [Github](#) | [Live](#)

Pune, India

Symbiosis Institute of Technology

July 2023 - October 2023

- Educational tool to **visualize** and **learn** popular Data structures & Algorithms like **Path-Finding & Sorting**.
- **Complete control** over visualization features, including Pause & Play, Speed adjustment, and Player-Bar for animation.
- Built using **React**, **Redux**, and **Material-UI**, including a **Tutorial** window, **Deployed** on Github Pages.
- **Technical Skills:** HTML, CSS, Javascript, React, Redux, Material-UI, Git, Github.

### Aircraft Fuel Flow Rate Predictor | [Github](#)

Pune, India

Symbiosis Institute of Technology

Jan 2023 - June 2023

- Carried out the **EDA** on a dataset containing 11 million records and 1000 flight instances.
- Conducted **feature engineering**, refining **226** variables into **63** key features for data analysis and modelling.
- Trained **6** Models and Attained **99.25%** adjusted **R2 score** for model accuracy using **Artificial Neural Network**.
- **Technical Skills:** Python, Pandas, NumPy, TensorFlow, Matplotlib, Plotly, Deep Learning, ANN, Google Collab.

### Hybrid Sentiment Analysis: BERT- CNN Ensemble | [Github](#)

Pune, India

Symbiosis Institute of Technology

Sept 2023 - Nov 2023

- **Merged BERT's** deep semantic understanding with **CNN's** feature extraction for more **accurate** sentiment analysis.
- Optimized for sentiment analysis **precision**, **improving** text analysis across diverse applications.
- Developed an **ensemble model** attaining an **accuracy** of **89%** in sentiment analysis.
- **Technical Skills:** Python, Pandas, Matplotlib, Seaborn, Scikit-learn, Ensemble Learning, Sentiment Analysis, BERT (Language Model).

## Skills

<b>Programming</b>	Python, R, Java, C/C++, SQL, Apache Spark, Data Structures & Algorithms
<b>Tools &amp; Frameworks</b>	Scikit-learn, Matplotlib, Seaborn, Keras, LangChain, TensorFlow, Pandas, Numpy, PowerBi
<b>Web Development</b>	HTML, CSS, JavaScript, React
<b>App Development</b>	Dart, Flutter
<b>Miscellaneous</b>	Data Analytics, MS Word, MS Excel, MS PowerPoint, Git, GitHub, Latex
<b>Soft Skills</b>	Time Management, Teamwork, Problem-solving, Documentation, Leadership, Negotiation, Creativity

## Publications

### CONFERENCE PROCEEDINGS

Aircraft Fuel Flow Modeling and Performance Optimization Using Machine Learning

Deepak Dharrao, Naivedya Rai, Mrinank Misal, Nirgoon Joshi, Siddharth Rajagopalan

3rd International Conference on Signal Data Processing 2023(ICSDP - 2023), 2023, India (Accepted)

## Achievements

2023	<b>1st Place</b> , Awarded Best Research Paper and Presentation in the ML Track at ICSDP-2023 out of 300+ Papers	India
2023	<b>8.5/9</b> , International English Language Testing System(IELTS)	India
2023	<b>15/1412</b> , Institute Rank on <a href="#">GeeksforGeeks</a>	India
2022	<b>5 Stars</b> , in SQL on <a href="#">HackerRank</a>	India
2022	<b>Selected</b> , for an Academic Internship in Data Analytics at The National University of Singapore(NUS)	India
2020	<b>TOP 1% Scorers</b> , SITEEE entrance exam	India
2018	<b>1st place</b> , Inter-school cubing competition & top 20 in several National level competitions	India
2018	<b>Top Performer</b> , Awarded top performer for scoring 90%+ in ICSE Class X Examination	India

## Certifications

<b>AI/ML</b>	Machine Learning Specialization by Andrew Ng   <a href="#">Coursera</a>
<b>AI/ML</b>	Deep Learning Specialization   <a href="#">Coursera</a>
<b>AI/ML</b>	Python for Data Science and Machine Learning Bootcamp   <a href="#">Udemy</a>
<b>Python</b>	The Complete Python Bootcamp From Zero to Hero in Python   <a href="#">Udemy</a>
<b>Cloud</b>	AWS Cloud Technical Essentials   <a href="#">edX</a>
<b>DSA</b>	Mastering Data Structures & Algorithms using C and C++   <a href="#">Udemy</a>
<b>WebDev</b>	List of completed Web Development Courses   <a href="#">Coursera</a>