

Sudhanshu Nain

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EDUCATION

Indian Institute of Technology Patna

Bachelor of Science in Mathematics and Computing, 3rd Year, CGPA: 8.74

Bihta, Bihar, India

November 2022 - May 2026

St. Thomas Sr. Sec. School

Senior Secondary (Class 12th), CBSE, Percentage: 94.6%

Mandsaur, M.P., India

April 2020 - May 2021

St. Thomas Sr. Sec. School

Secondary (Class 10th), CBSE, Percentage: 93.2%

Mandsaur, M.P., India

April 2018 - May 2019

EXPERIENCE

Growth Intern and Mentor

June 2023 – July 2023

FACT APP

Remote

- Operated a platform with 30,000+ mentors dedicated to fostering networks among students and faculties.
- Guided 50+ aspirants and mentored them in JOSAA counseling, ensuring optimal college selection.
- Directed marketing campaign, achieving a 40% increase in user acquisition and a 25% boost in engagement through innovative advertising strategies and optimized teamwork dynamics.
- Executed an app promotion webinar for 200+ students, showcasing IIT Patna among 23 IITs, effectively attracting JEE Advanced qualifiers through engaging representation.

PROJECTS

Celebrity Look Alike | Python, Streamlit, OpenCV, TensorFlow, Keras, Numpy

June 2024

- The project leveraged **advanced deep learning** to match user-uploaded photos with celebrities by performing face detection to find the closest celebrity resemblance for any given image and achieved a **92%** performance score.
- Executed **OpenCV & CNN VGG-Face** to process 8,000+ images efficiently, applied **TensorFlow & Keras** for feature extraction of pre-trained model (**92%** score), utilized Python modules for **exploratory data analysis**.
- Engineered a **Streamlit**-based web interface for enhancing user interaction, reducing data processing time.

Car Price Prediction | Python, Django, HTML, CSS, Numpy, Scikit-Learn, Matplotlib

May 2024

- Developed a **machine learning** model to predict car prices, trained on a robust dataset of 6000+ data points.
- Implemented **linear regression** initially, yielding an R^2 score of **70%**. Further optimized the model with a **random forest regressor**, achieving a higher R^2 score of **93%**, boosting model efficiency by **23%**.
- Engineered **Django** deployed website (**HTML & CSS**), ensuring scalable user interaction & real-time predictions and utilized Python libraries like **Numpy, Pandas & Matplotlib** to analyze and visualize data efficiently.

Hate Detection | Python, Tensorflow, Pytorch, Sentence-transformers

March 2024

- Developed a **multi-classification** model to categorize tweets into 5 hatred types, enhancing platform safety.
- Trained an **11-layered** neural network on 1,50,000+ data points and extracted sentence embedding by utilizing **sentence-transformers/all-mpnet-base-v2**.
- Attained an accuracy of **98.95%** and a precision of **75%**, demonstrating high effectiveness in classifying tweets.

SKILLS SUMMARY

- Programming & Tools:** C, C++, Python, Git, HTML, MongoDB, SQL, Jupyter Notebook
- Libraries/Frameworks:** OpenCV, Scikit-Learn, TensorFlow, keras, Django, Streamlit, AWS
- Relevant Courses:** Data Science, Financial Mathematics, DSA, Deep Learning, Database Management System
- Interests:** Mathematical Finance, Machine Learning, Competitive Programming

ACHIEVEMENTS

- Research Consultant** at **WorldQuant**, qualified IQC Stage 1 & earned alphas worth **10,000+** points. June 2024
- Achieved Worldwide Rank **165** in Kaggle Skill Assessment Challenge for **Car Price Prediction**. June 2024
- Specialist** at **Codeforces**, solved more than **400** questions on various coding platforms. May 2024
- Secured **AIR 4302** in JEE Mains & **AIR 4146** in JEE Advanced, ranked in the top **0.5%** candidates. September 2022
- Secured **AIR 36** in UGEE (IIIT Hyderabad Entrance), including the interview stage. August 2022

PORs AND CO-CURRICULAR ACTIVITIES

- Inter IIT Sports Meet:** Represented Athletics Team of IITP in Inter IIT and qualified in the top 12. December 2023
- Sub-Coordinator** of ARIA, The Music Society of IITP. July 2023
- Speed Cubing:** Stood 1st in Unscramble 2.0 conducted by the **Hexachrome** Club at IITP. April 2023
- Class Representative** of batch of Mathematics and Computing. November 2022