Aditya Khuntia

First Year Undergraduate
Department of Applied Mathematics
B.Tech Mathematics & Computing Engineering

📞 +91 7011851981
✉ adityakhuntia_23mc012@dtu.ac.in
in Aditya ⬮ adityakhuntia
https://adityakhuntia.com

Academic Qualifications

Year	Degree / Certificate	Institute	CPI%
2023 - Present	B.Tech	Delhi College of Engineering	9+
2022	CBSE - XII	Amity International School, Saket	96%
2020	CBSE - X	Amity International School, Saket	96.2%

Achievements

- Engineered the UniPump Space Toilet System as part of the championship-winning team in the NASA Lunar Loo Challenge Jr amongst 850+ teams from across 84 countries; designed to ensure efficient waste management and hygiene in lunar and microgravity environments
- Toycathon' 21 Winners among 17,000+ projects & 1.29 Lakh students, secured Rs 50,000 grant for pacing Sanskrit strategies amongst youth
- Authored 2 Copyrights issued by Government of India for development of applications (Unipump System | Expresify App)

Work Experience

Algo One - Internship

- Implemented Mixtral AI and advanced language learning models (LLMs) to develop smart summarization tools, processing over 1,000 updates and corporate filings monthly from the NSE RSS Feed
- Played a pivotal role in the development and enhancement of product features focused on improving financial updates for retail investors, resulting in a 25% increase in user satisfaction and engagement

Key Projects

Young Tycoons Business Challenge - Team Leader

- Reached the prestigious status of a global finalist (Top 18) in a competitive business startup pitching competition. Pitching to and being evaluated by various CXO level executives from companies such as CitiBank, Deloitte, P&G, BW Business World
- Competing against 80+ countries, 2,400+ schools, and 20,000+ students amid a pool of 7,000+ applications. This event was conducted in collaboration with Harvard Student Agency and The Hong Kong University of Science and Technology (HKUST)

Blue Oceans Student Entrepreneur Competition - Team Leader

- Achieved recognition within the Top 100 in a student entrepreneurship competition, employing the Blue Ocean strategy and leveraging various startup kits. Competed against 5,209 participants from 146 countries and territories, representing 1,700 schools

Expressify - Co-Founder

- Led the creation of a language learning app targeting Non-Native Speakers to improve English communication skills
- Crafted an Interactive Phrase Gallery featuring 150+ phrases, seamlessly blending authentic Native Speaker expressions and slang for an engaging learning experience. This innovation spurred a 40% surge in user engagement and retention rates
- Implemented Real-Time Audio Phrase Detection, enhancing contextual language understanding
- Integrated Natural Language Processing (NLP) algorithms, delivering precise pronunciation checks and phonetic evaluations with an impressive accuracy rate of 85%, significantly enhancing user learning experiences

Saarathi - Developer

- Contributed to a COVID-19 response app ensuring safety during the unlock process by providing safe navigation solutions with 100+ downloads and maintaining a 4.9 start rating
- Collaborated with cross-functional teams to enhance user experience, resulting in measurable improvements in user satisfaction. Additionally, optimized algorithms to improve the efficiency of routes, significantly reducing travel times and saving 5+ hrs a week
- Played a role in developing and optimizing APIs for accessing crucial COVID-19 statistics and center locations resulting in a 40% increase in data accuracy and real-time updates

Course Projects

Stock Price Analysis using Random Walk

- Explored one-dimensional Random Walk and analyzed the Efficient Market Hypothesis (EMH) using the same
- Modeled the stock prices using the Random Walk model and extended it using the Geometric Brownian Motion model
- Tested the Random Walk Hypothesis using statistical methods for the NIFTY-50 index and BSE Sensex index

Technical Skills

- *Programming Languages:* Python, Java, HTML, CSS, Javascript, Typescript, SASS, LaTex, Matlab
- *Software and Libraries:* Git, React Native, Pandas, Numpy, Matplotlib, React, NodeJS, Bootstrap, Django, SQL

Relevant Coursework

- *Mathematics :* AM101, AM102, Complex Analysis, Discrete Structures
- *Computer Science :* Programming Fundamentals(C++), Data Structures & Algorithms, Python, Matlab

Leadership

General Secretary @ AISS: (2nd in Command) Student Council
President : Vincere - MUN Society

Extra-Curriculars

- Represented India at Harvard Model United Nations - Boston 2019
- Columnist - DTU Times (College NewsPaper with a following of 16,000+ users)