

AYUSHMAN PAL

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EDUCATION AND SCHOLASTIC ACHIEVEMENTS

Program	Institute	% / CGPA	Year
Bachelors, Chemical Engineering	Indian Institute of Technology, Madras	7.37	2026
CBSE, XII	St. Anselm Sr. Sec. School, Bhilwara, Rajasthan	92.6	2022
CBSE, X	The Oxford School, Haridwar, Uttarakhand	92.8	2020

- _> Secured percentile rank **99.47** out of **1.1 million** of candidates in **JEE Mains 2022** conducted by **National Testing Agency**
- _> **7th Place** – **iSchoolConnect Programming Contest** on **CODECHEF**, among 3,000 participants, showcasing strong programming skills
- _> **11th Place in Piramal ML Hackathon** conducted among (IIT Delhi, IIT Madras, IIT Kharagpur), demonstrating expertise in machine learning.
- _> **1740 max rating on CODECHEF** and **1439 on CODEFORCES** (Competitive Programming Platforms) reflecting problem-solving abilities

SKILLS AND RELEVANT COURSES

SKILLS	Programming: C++, Python, Javascript, Machine Learning (Supervised Learning)	
	Tools/Libraries: Tensorflow, Pandas, Matplotlib, Numpy, Linux, Selenium, Docker, scikit-learn, GNU Octave, MATLAB	
	Practice & Project Management: MySQL, PostgreSQL, Object Oriented Programming	
COURSES	Data Structures and Algorithms (Geeks for Geeks)	ID2090: Introduction to Scientific Computing
	Supervised Machine Learning: Regression and Classification (DeepLearning.ai X Stanford University)	Advanced Learning Algorithms: Neural Networks, Decision Trees (DeepLearning.ai X Stanford University)
	Unsupervised Learning, Recommenders, Reinforcement Learning (DeepLearning.ai X Stanford University)	MA2040: Probability, Statistics and Stochastic Process
	NPTEL – Programming in Python	Software Design and Architecture (Coursera) - Ongoing

PROFESSIONAL EXPERIENCE

CYBERSECURITY INTERN, IIT MADRAS (May'24 – July'24) GITHUB	Guide Prof. N.S. Narayanaswamy	
	_> Public Exploits Reversing: Analyzed and implemented Proof of Concept for various software vulnerabilities, including CVE-2024-21413 and CVE-2023-23397 , Implemented Antivirus Evasion Strategies to mitigate risks and enhance system security.	
	_> Info Stealers: Developed and documented a tool to analyze info-stealing malware, focusing on data extraction techniques, successfully extracting cookies , Chrome passwords , and user info , and sending it to Discord Server/Telegram Bot while bypassing Windows Defender.	
DATA ENGINEER, REOMNIFY (Dec'23-Feb'24)	_> Developed and implemented Python – based web scraping solutions using advanced libraries, including Selenium and BeautifulSoup , to automate data retrieval and apply data transformation techniques from over 60 online resources .	
	_> Managed and maintained data storage using MySQL and PostgreSQL , ensuring data integrity and accessibility.	

PROJECTS

BOT VS BROWSER (Sep'24-Ongoing) GITHUB	Guide Prof. N.S. Narayanaswamy	
	_> Developed a Client-Side Bot Detection Tool – Typescript based browser parameter details extractor that compares browser data against bot detection rules and sends data to server for Machine Learning Model training.	
	_> Developed detectors for famous automation tools – Selenium , Playwright , Puppeteer , Headless_Chrome and Working on some advanced bots – puppeteer_stealth , browserless , pyppeteer_stealth .	
	_> Planning to enhance bot detection by developing a DNN-based model and integrating security tools like ModSecurity to prevent bot attacks, while building an API for external websites to utilize the detection tool.	
SMART FAQ MODULE (Sep'24 – Oct'24) GITHUB	_> Developed an advanced FAQ management tool using NLP algorithms (Embedding, Sentence Transformers) to deliver precise answers to user questions, improving response accuracy and customer support efficiency.	
	_> Provided a fully customizable interface for admins to manage and update FAQ entries dynamically, and seamless integration with existing web frameworks.	
STOCK PRICE PREDICTION MODEL (Jan'24-Feb'24) GITHUB	_> Developed a Stock Price Prediction model using LSTM (Long Short Term Memory) Neural Networks , achieving notable accuracy and reliability in forecasting trends and generated reliable buy and sell signals using Decision Trees and Classification models like Xgboost and its variants.	
	_> Detected market anomalies using Isolation Forest Algorithm , improving the model's ability to identify unusual patterns and enhancing financial market decision-making.	

POSITIONS OF RESPONSIBILITY

MANAGER (Jun'24 – Sep'24)	Sponsorship and Industrial Relations, CFI _> Facilitating industry partnerships and managing flagship events to secure sponsorships and promote club initiatives, leading to enhanced engagement, increased funding and elevated brand visibility.
MENTOR (Apr'23-Apr'24)	Saathi – Student Wellness _> Mentored Freshman, providing guidance in academic, professional, and personal development throughout year

EXTRA CURRICULAR

- _> Actively contributed to the NSS (National Service Scheme) organization at IIT Madras, participating in events like Clean Drive at Marina Beach, demonstrating a commitment to environmental stewardship and community engagement.
- _> Won the Inter-Department Cricket Championship organized by the Hostel showing team player skills