NAMAN DUBEY
FOURTH YEAR UNDERGRADUATE
INFORMATION TECHNOLOGY

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CAREER OBJECTIVE

To create and work on innovative projects to solve real life problems of the world. To work in a team of smart and passionate people to make the world a better place to live through technology and to give my best.

EDUCATION

COURSE	INSTITUTE	YEAR	PERFORMANCE
Bachelor of Technology, Major in Information Technology	**Indian Institute of Information Technology Bhopal Bhopal, India**	July'17-Present	CGPA **9.54 / 10**

PROJECTS / TRAININGS / INTERNSHIPS / WORKSHOPS

Centre for Cognitive Computing, IIIT Allahabad (Internship) — 2020 May – 2020 July

Mentor : Dr. U. S. Tiwari
Project Name : Hindi Speaking Chat-bot with web-app and voice

➢ Created a chatbot that could talk with the user in Hindi on any generic topic.
➢ Developed the Web-app using HTML,CSS,Javascript and Flask and integrated voice(speech recognition) to it.
➢ Wrote the Script for the chatbot in Python.

IIT Bhubaneshwar (Internship) — 2020 June - 2020 July

Mentor : Dr. Padmalochan Bera
Project Name : Context Aware Robust Intrusion Detection System – a reinforcement learning based approach

➢ Study of Intrusion Detection System to perform anomaly based detection on malwares.
➢ Study of various ML and Reinforcement Learning techniques to perform anomaly based detection.
➢ Study and application of A2C (Advantage Actor Critic) algorithm to be used in the IDS.

Smartbridge (Internship) — 2020 May – 2020 June

Mentor : Ms. Lalitha Gayatri

Project Name : Intelligent Customer Helpdesk with smart document understanding

➢ Created a Smart Assistant that would reply to customer queries by searching the keywords in the customer query into the pre-loaded directory using features like sentiment analysis.
➢ Trained the model on various documents using Machine Learning techniques.
➢ Created a front-end and integrated it using Node-red.

Ministry of Electronics and Information Technology (MEITY), New Delhi (Internship) — 2019 May – 2019 July

Mentor : Mr. Anil Kumar Pipal

Project Name : Online Portal for Govt. Skill Development Scheme

➢ Created portal for govt. skill development schemes like E&ICT and ESDM using HTML,CSS, Javascript.
➢ Analysed different requirements and proposed solutions.
➢ Documented the software using UML case tools.

Wifi Hacking & Deauthentication using Reinforcement Learning — 2020 Feb – 2020 May

Mentor : Dr. Priyank Jain

➢ Used Raspeberry Pi & Bettercap to capture network packets.
➢ Performed Wi-Fi Deauthentication, in the meantime discovered Clientless PMKID Association Attack.

➢ Improved the performance for faster and maximum Wi-Fi networks hacking, using Reinforcement Learning (Advantage Actor Critic), implemented it using the Open AI Gym.

Early Sepsis Detection using Machine Learning	2020 Jan – 2020 May

Mentor : Dr. Manasi Gyanachandani

➢ Detected Sepsis using clinical data of patients, used ML techniques like decision tree, random forest, regression, svm etc. to gain an accuracy of 99% & good recall of 22% (very good for healthcare). Analyzed the features & performed preprocessing.

➢ Used Deep Learning using Dense Auto-encoder to get the best result for this extreme rare imbalance problem.

E-Commerce Application	2019 Jan – 2019 March

➢ Implemented Frontend, Backend and database management (Mysql) using HTML,CSS and Javascript .

Sudoku Solver	2018 Dec – 2019 Jan

➢ Created an interactive Web Application in Javascript using Backtracking concept to solve sudoku puzzle.

Advanced C++ using Data Structures & Algorithms (Training 5-months)	2018 Dec – 2019 May

From : Coding Ninjas , secured a score of 88.5% in the passing exam.

ACHIEVEMENTS

➢ Got selected in the Digital India Internship Scheme 2019 by Gov. of India , (50 students were selected from all over India) and completed internship at Ministry of Electronics & Information Technology (MEITY) New Delhi.
➢ Recipient of Award for Academic Excellence(topper) in all classes in High School.
➢ 1st Rank in College Academics in 3rd year.
➢ Reached till Pre-Final Round of "PLACEMENT HEAT 4.0" (2019) – an online national level mock placement contest (based on aptitude, coding and communication skills)
➢ Among top 30 students in TA selection Coding Contest by Coding Ninjas (2019).
➢ 1st Rank in college level coding test organised by MANIT seniors.
➢ 1st prize in the Aptitude & Business event "Market Guru 8.0 " out of 300+ participants in Techno-Search, annual techfest of MANIT Bhopal (2019).
➢ 1st prize in "Dhar Pratibha Khoj", a district level Talent Hunt Competition consisting of aptitude and gk tests. Awarded Computer as first prize.
➢ 1st prize in District level Debate competition organised by Rotary Club.

POSITION OF RESPONSIBILITIES

➢ **School Leader | St. George E.M. School** selected as school leader in elections
➢ Technical & Editorial Team member at Young Thinkers Forum M.P.
➢ Moderator (Programming) at The Uplift Project by GirlScript foundation (a program to enhance technical skills in students)
➢ TA at Coding Ninjas
➢ Core Team Member of Metaphysics, college technical society formed by MANIT seniors through selection test & interview.
➢ Head of Science Club in School.
➢ Member of Entrepreneurship Cell at school & organised Startup Intern Fair for students.

EXTRA-CURRICULAR ACTIVITIES

➢ Got selected in top 20 participants out of 250+ to Participate in the IBC MUN at MANIT Bhopal.
➢ Got selected in (top 2 %) students from India & participated in Young Thinker's Conclave YTC (2018), a national level conclave of intellectuals to find holistic solutions to problems of the world.
➢ Participated in Entrepreneurship Bootcamp organised by IIT Delhi & IIM Calcutta, worked under distinguished mentors from the industry to solve real world problems.
➢ Won numerous speech, debates & writing competitions at school & college level.
➢ Reached till Final Round of National Level Quiz Contest(CHIMERA-X) organised by ISTE Student's Chapter MANIT.
Sports
➢ Won the District Level Inter School Football Tournament in the year 2012.
➢ Was part of the school badminton team which qualified for state level Inter- school badminton tournament.

RELEVANT COURSES

Machine Learning (Andrew NG)	Data Structures Algorithms	Computer Networks	NLP	Digital Forensics

Operating System   Object Oriented Programming   Database Management   Soft Computing   IoT

Web Development   Artificial Intelligence   Computer Architecture   Software Engineering

SKILLS

Programming Language - C, C++, Python, HTML, CSS, Javascript

Technical – ML, NLP, IoT, Big Data Analytics, Node-red, Digital Forensics Analysis, Web dev, UML, SQL, NoSql, MongoDB, Linux, Digital Image Processing, Data Mining

Software – Kali Linux, Matlab, IBM Watson, IBM Discovery, Volatility, FTK Imager, Wireshark, Logisim, GNUsim, Jupyter, Eclipse, VS Code, LaTeX

Non-Technical – Public Speaking, Writing, Communication skills, Analytical skills, Management skills