**PROFILE**

An honest and dedicated worker with a love for learning fuelled by logic, creativity and out of the box thinking. Has clarity of thought and a flair to analyse logically.

**ACADEMIC ACHIEVEMENTS**

All India Rank 2 in National Creativity and Aptitude Test (NCAT), 2015

All India Rank 15 in National Creativity and Aptitude Test (NCAT), 2014

All India Rank 34 in International English Olympiad, 2009

All India semi-finalist at IT Olympiad, 2016 (organized by Computer Society of India.)

All India semi-finalist at Code Uncode, 2014

Topped the course on Space and Quality Environment (in association with ISRO)

Topped at school-level in International Mathematics Olympiad, 2010

Topped at school-level in International Science Olympiad

Second at school-level in National Cyber Olympiad

Participated in the OurCS 2015 research workshop at Carnegie Mellon University, USA, dealing with machine learning.

Presented a research paper on “Exploring Robust Vehicle Detection and Tracking Methods for Various Illumination Settings using Infrared Thermographic Images” at the NCPCI Conference at VIIT, Pune on March 19th, 2016 (currently under publication in the International Journal of Research in Advent Technology).

Selected for a semester exchange programme at National Technological University, Singapore

Participant in the RIPE Atlas Hackathon, 2016, at Copenhagen, Denmark

Participating as a mentor in the Google Summer of Code, 2016.

Presented a research paper on “Exploring the Facets of Colonization of the Red Planet – Mars” at the Student Conference on Emerging Technologies and Innovations at SIT, Pune on August 19th, 2014.

Studying the ionosphere using GPS technology at SIT (in association with ISRO).

Headed a project on ‘Creativity and Innovation’ and managed the team of UG and PG students at IIT Delhi.

**TECHNICAL SKILLS**

|  |
| --- |
| **Languages and Platforms** |
| C |
| C++ |
| JAVA |
| Python |
| MATLAB |
| MySQL |
| Basic Linux shell programming |
| HTML, CSS and JavaScript |

|  |
| --- |
| **Conceptual Areas** |
| Computer Science Fundamentals |
| Data Structures |
| Algorithms |
| Operating Systems |
| Computer Networking |
| Database Management Systems |
| Machine Learning Fundamentals |
| Deep Learning and Neural Network basics |

Strengths include:

Algorithms and Programming

Data Structures

Computer Networking

**PROJECTS**

Using Deep Learning and Convolutional Neural Networks to create a novel vehicle tracking system.

Modeling student behavior using Machine Learning, to improve automated instructional decisions made by intelligent tutoring systems, for teaching histograms to students.

Implementing the game, ‘Tic Tac Toe’ using Game Trees and the Minimax Algorithm

Implementing the game, ‘Hangman’ in Java using database connectivity with MySQL

Study of the network routing problem, and minimum-hop and minimum interference routing heuristics through implementation

Creating and implementing a Social Networking database on MySQL

Studying the ionosphere using GPS technology at SIT (in association with ISRO).

\* All projects are listed with documentation at: <https://github.com/Uppaal/Projects.git>

|  |  |  |
| --- | --- | --- |
| **EDUCATION AND TRAINING Institution** | **Course** | **Score/ GPA** |
| The Bishops Co Ed School | High School – ICSE (Class X) | 93% |
| Vikhe Patil Memorial School | Higher Secondary – CBSE (Class XII) | 85% |
| Symbiosis Institute of Technology | B Tech, Computer Science | 3.5 (out of 4) |

|  |  |
| --- | --- |
| **Training Programmes & Workshops** | **Institution** |
| Analysis and Design of Algorithms | Stanford University |
| Networks Illustrated | Princeton University |
| Algorithms Part I | Princeton University |
| Cyber Security Workshop | Infi-Zeal Technologies |
| Ethical Hacking | infySEC |
| Multimedia and Animation | Sumeru Academy of Digital Arts |
| Eureka (Business Workshop) | IIT Mumbai |
| Communique (International Telecom Seminar) | Symbiosis Institute of Telecom Management |
| Space and Quality Environment | In association with ISRO |
| From the Big Bang to Dark Energy | University of Tokyo |
| Galaxies and Cosmology | California Institute of Technology |
| Analyzing the Universe | Rutgers University |
| Learning How to Learn | University of California, San Diego |
| Abacus Training, Level 8 | SIP Academy |
| Machine Learning | Indian Institute of Technology (Postgrad course) |
| Reinforcement Learning | Indian Institute of Technology (Postgrad course) |
| Microsoft Azure Workshop | Microsoft Research |

**WORK EXPERIENCE**

Research in the field of Deep Learning at **Indian Institute of Technology**, Madras, funded by Microsoft Research, India.

Working as a freelance graphic designer for **Krea**, a corporate training consultancy company for their branding and training modules. Have also created the logo for the company.

Software development with **Think Tank**, a start-up focused on launching start-up ideas by harnessing technology.

Head of Design team for annual college festival, “Reverb”. Handled and managed entire branding, certifications and web and print designs.

Voice over for **UNICEF** for their organisational film regarding children’s activities across the globe. Youngest voice over artiste to handle an English language script, internationally.

Professional voice over for **Aptech Ltd.**’s ILT and online training programmes on Communication Skills, ESL (English as a Spoken Language), Personality Development and Aviation modules.

**ACHIEVEMENTS – SPORTS AND CULTURAL ACTIVITIES**

Best All Rounder of the Bishops Co-Ed School trophy – 2011.

Done voice-overs for UNICEF, Aptech Ltd. and Bishops Co-Ed School.

Anchored cultural and academic events at Air Force School, The Bishops Co-Ed School and Vikhe Patil Memorial School.

Won several awards in Debates, Elocutions, Essay writing, Quiz contests, Solo/Group Song and Dance competitions.

Conductor and active member of The Bishops School Choir.

Actively participated in dramatics and theatre. Also carried out lead roles in English school plays.

Member of Inter school skating team.

Head of school marching squad and pyramid team.

Participated in various sports (lawn tennis, basketball, long jump, discuss throw) at school level.

Active participation in various SIT activities and competitions (E-Cell NEC Challenge, Open Mic, Reverb events and Workshops.

**PERSONAL SOCIAL RESPONSIBILITY (PSR) ACTIVITIES**

Part of the drive conducted by ‘Swacch’ (an NGO) to ban plastic bags and replace with paper bags. Covered an allocated region of Pune on foot with hundreds of paper bags and spoke to people about the concept of saving our planet by banning the use of plastics. Also handed over free paper bags to them.

Selected as part of the four member support team from Bishops School in the drive to collect and collate items for charity across Pune for the NGO ‘Goonj’.

Active member of ALL, the world’s largest non-profit women’s international organization for women empowerment and leadership. Youngest member of the organisation. Has been helping to build and manage the image of economically challenged girl students.