PAVAS GOYAL

ACADEMIC DETAILS

Year	Degree / Board	Institute	GPA / Marks(%)
---	B.Tech in Computer Science & Engineering	Indian Institute of Technology, Delhi	9.529
2018	CBSE	Rose Mary Convent School	93%
2016	ICSE	Malwa School Gidderbaha	94.2%

WORK EXPERIENCE

- **Technical head at Acadmaze** : (August,2018 - Present) Lead a team of 7 developers, Selected as regionalist at Entrepreneurship World Cup, and at iB Hubs startup school. Visit Website - http://acadmaze.com
- **Project Member at Assistech Lab,IIT Delhi** : (May,2019 - Present) Worked under Assistech Lab for a Project which is part of Project RAVI (Reading Assistant For Visually Impaired)
- **Member of Official Software Development Club,IIT Delhi** : (March,2020 - Present) Member of the dev community, IIT Delhi.

SCHOLASTIC ACHIEVEMENTS

- **JEE(Advanced)** : Secured **All India Rank 90** among a total of 1.5 million students.
- **Kishore Vaigyanik Protsahan Yojana (KVPY) Scholar** : With an All India Rank 337 was awarded fellowship funded by the Department of Science and Technology, Government of India.
- **Excellence in Semester-I** : Was among the top 7% amongst all freshers of the year.
- **Regional Mathematics Olympiad (RMO)** : Qualified for Regional Mathematics Olympiad ,the first round of mathematics contest leading to the prestigious International Mathematics Olympiad
- **National Standard Examination in Chemistry** : Qualified NSEC being top 1% in the country.

PROJECTS

- **Conversion of Raster Tables Images into Accessible Form**: *(May,2019 - July,2019)* *Prof. M. Balakrishnan, IIT Delhi*
  - Developed as a Part of RAVI project (Reading Assistance for the Visually Impaired) under Assistech Lab, IIT Delhi
  - Used Image Processing tools to develop a system which extracted the table structure and data from raster images and rendered the same into the Accessible (HTML, XML) structured Tables.
  - Implemented and optimized contour detection, canny edge detector, Hough Transform and other structure detection algorithms to achieved around 90% accuracy for text structure detection.
  - Studied and optimised Tesseract(OCR) engine it to increase its accuracy in every type of text extraction.
- **ML based ranking system for recruitment** *(November, 2019 - present)* *Prof. Niladri Chatterjee, IIT Delhi*
  - Build a software which classify people on various attributes at intellectual as well as personal level provided by the recruiter and suggest the best candidates who should be hired.
  - The system uses natural language processing to access data from all types of social or personal sources and then designs a complete assessment and matches it with the required attributes to select the best person using machine learning algorithms.
- **Digital Encryption/Decryption** *(October, 2019 – November, 2019)* *Prof. Anshul Kumar, IIT Delhi*
  - Build hardware system for fast and highly secured encryption of text by designing more secure and concealed encryption algorithms.
- **Web based Platform for Academicians** *(Sept, 2018 - July, 2019)* *Prof. S C Gupta, IIT Delhi*
  - Developed a web based Platform with a user-friendly interface and also conceptualised and implemented the server side system using express JS and NodeJS for handling client requests.
  - Devised an efficient query system for advanced and power rich text search.
  - Customised the server for Load Balancing and encryption for security management of data.
- **Autonomous Brightness Controlling System for Smart Lighting System** *(Sept,2019)* *Prof. Anshul Kumar, IIT* Delhi
  - Designed and manufactured an autonomous system controlling brightness of LEDs based on Ambient light intensity available around it.

TECHNICAL SKILLS

- **Programming** : Python, Java, VHDL, C++,C , NodeJS, HTML, CSS, Javascript .
- **Software & Tools** : Android Studio, OpenCV, Xilinx ISE, Vivado design suite, AutoDesk Inventor, Unity, Amazon Web Services

RELEVANT COURSES

- **Offline Courses :** Data Structures and Algorithms , Discrete Mathematical Structures , Probability Stochastic Processes , Digital Logic System Design, Introduction to Algorithms and Computing, Applications of Calculus, Linear Algebra , Theory of Differential Equations, Thermodynamics , Electromagnetic Waves and Quantum Mechanics,Programming Languages, Computer Architecture, Signals and Systems.
- **Online Courses :** Machine Learning with Python(Course era), Introduction to Deep Learning (Course era).