

PAVAS GOYAL



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

WORK EXPERIENCE

Intern at NOKIA, New Delhi:

- Designed and implemented a three way biometric authentication system for office employees which included face, fingerprint and voice recognition modules.
- Used DNN based approaches for preparing encodings for face in images, align them and authenticate individuals based on encoding distance scores.
- Used GMMs and UBMs to prepare models for voices of individuals and verify them based on different comparison metrics.
- Used Image processing techniques (normalization, gabor filter, thinning, binarization) for enhancing latent fingerprints, followed by minutiae extraction and matching of fingerprints using descriptors.

Intern Associate Technology at Flexiele, Gurgaon:

- Build a highly efficient resume parsing system with enhanced extraction of the data in the resume into a detailed json format curbing each and every attribute mentioned in the resume.
- Employed various NLP libraries like spacy, nltk, regex on the way to develop a robust parsing system.

Technical head at Acadmaze:

• Lead a team of 7 developers, Selected as regionalist at Entrepreneurship World Cup, and at iB Hubs start-up school. Visit Website - http://acadmaze.com

Project Member at Assistech Lab, IIT Delhi:

• Worked under Assistech Lab, IIT Delhi for the Project RAVI (Reading Assistant for Visually Impaired)

Member of Official Software Development Club, IIT Delhi:

• 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

- ML based ranking system for recruitment (Nov, 2019 April, 2020) 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.
- Utilized Universal Sentence Encoder (Google) for semantic matching of the attributes with the resume data for incorporating context dependent scoring of attributes.
- Android PC controller (April, 2020 June, 2020)

Dev-club, IIT Delhi

- Designed a server(PC) client(controller) application for controlling PC via android/.
- Implemented TCP and UDB sockets for building wireless controlling and built efficient data packets to minimize the connection ping for a smooth game play while playing games on PC using the controller.
- Conversion of Raster Tables Images: (May,2019 July,2019)

Prof. M. Balakrishnan, 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.
- Custom Linux Shell (Jan, 2020 Feb, 2020)

Prof. Kolin Paul, IIT Delhi

- Designed and created a custom Linux Shell using C Language with support for various commands, redirection from files, forking and piping.
- Digital Encryption/Decryption (Oct, 2019 Nov, 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.

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).

LinkedIn - https://www.linkedin.com/in/pavas-goval-99391016a/

Homepage - https://pavasqdb.github.io/homepage/

Github - https://github.com/pavasgdb/