Deepak Meena

Final Year Undergraduate
Department of Electrical Engineering

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Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2019 - Present	B.Tech	Indian Institute of Technology, Kanpur	6.7/10
2019	CBSE(XII)	Jawahar Navodaya Vidyalaya, Bundi	88.4%
2017	CBSE(X)	Jawahar Navodaya Vidyalaya, Rajsamand	10/10

Awards & Achievements

- Received **Pre-Placement Offer** from **Edgeverve System Limited** for Member of Technical Staff role
- Secured **98.2** percentile in JEE Mains 2019 among more than **1.2 million** students
- Salected for **Kishor Vaigyanik Protasahan Yojna(KVPY)** 2nd stage in SX stream 2018
- Received **Dakshana** fellowship in 2017 for two years given to top **1**% students from **661** JNVs across India

Work Experience

- **Edgeverve System Limited | Software Developer Intern** *(May'22- Jul'22)*
  - Implemented a feasible solution to reduce file size of screen recording and to decrease video compression time
  - Developed screen recorder for a **Computer Vision** sensor using open source dependencies **OpenCV**, **PyAutoGui**
  - Deployed the recorder to record in **WebM** format along with the **VP08** codec to reduce the output video size to half
  - Implemented complex multi threading process and tested different codecs to cut processing time by **35**%
  - Managed to keep memory utilization under **60**% and CPU utilization under **30**% for the entire process

Key Projects

- **Vedabase Shloka Recommendation System** *(May'21- Jul'21)*
  Mentor: Dr. Suvendu Samanta | Department of Electrical Engineering
  - Designed a system that recommend(s) the semantically similar verses
  - Collected all the verses from **Vedabase** corpus along with one-to-one meaning, translation,and purport by **Web scraping**
  - Assigned a unique ID to each verse for direct access of verse and above information. Each verse matched with a list of IDs of verses containing the same information using the **Regex** and **Beautiful Soup** library
  - Used word embedding to represent shlokas in embedding space and generated a sentence representation for each shloka
  - Used **K-nearest neighbours**, **Cosine-Similarity Measures** to generate potential candidates for recommendation
- **Cricket Tournament Database Management System** | Self Project *(Mar'22)*
  - Stored and maintained data about different players, matches, umpires and captains in an organized way
  - Designed Database using **Normalisation & Referential Integrity** concepts and provided **CRUD** operational functionality along with aggregate function usage(**SQL**). Got Exposure of **ER Diagram**, **MySQL**, Normalisation in Databases
- **Travel Management System** | Self Project *(Jun'20)*
  - Designed a travel management system that registers user and calculates the cost of travel, hotel, cab booking and generates payment receipt in txt format from admin panel
  - Learnt and implemented the 4 pillers of OOPs concept e.g. **Inheritance, Encapsulation, Polymorphism, Abstraction**

Technical Skills

- **Programming Languages:** C, C++, Python, SQL
- **Software and Tools:** MATLAB, LaTeX, Anaconda, MS Office, Micro-Cap, LTspice
- **Dependencies:** NumPy, Pandas, Matplotlib, Regex, Beautiful Soup, OpenCV, PyAutoGui
- **Computer Science Fundamentals:** Object Oriented Programming(**OOPs**), Database Management System(**DBMS**)

Relevant Courses   *(*Online Courses)*

Fundamentals of Computing	Data Structures and Algorithms*	Algorithmic Toolbox*
Image Processing *(ongoing)*	Linear Algebra and ODE	Probability and Statistics

Positions of Responsibility

- **Secretary, Photography Club | IIT Kanpur** *(May'20 - May'21)*
  - Conducted workshosp on basics of photography and advanced Post Processing for **400+** freshers
  - Judged the fresher's photography competitions with more than **250+** submission and worked for Campus Album project

Extra-Curricular Activities

- Volunteered at **Dakshana Foundation** for organising fellowship test 2020 at JNV Udaipur, Rajasthan *(Dec'19)*
- Portrait category winner in Xposure'20 online photography competition conducted by **IIIT Lucknow** *(Aug'20)*
- Volunteered at **Techkriti'20** in Media and publicity team to cover more than 10+ pre fest events *(Feb'20)*
- Represented Hall 5 in Galaxy'20 and secured **1st** position as a team in Photography competitions among five pools *(Feb'20)*