

Tushar kumar 2k19 co 413

EDUCATION	DURATION	UNIVERSITY	PERCENTAGE/CGPA
B. Tech Computer Engineering	2019 - 2023	Delhi Technological University	7.3 CGPA
CBSE (Class XII)	2019	Nutan Marathi Sr. Sec School	79%

PROFESSIONAL EXPERIENCE

Summer Intern, **TS2 Insurance and Marketing Pvt. Ltd., Faridabad** ([Link](#))

- Implemented a completely **responsive** frontend design using **HTML, CSS, SCSS and JS** with features like cards, carousal.
- Used **NodeJS** engine for backend support with libraries like **Passport JS** for authentication and node mailer for mailing services.
- NoSQL database management software **MongoDB Cloud** used to store **JSON**-like documents.

Winter Intern, **Xero Technologies Pvt. Ltd., New Delhi** ([Link](#))

- Worked as a **Research** Engineer, my duties were understanding & Training **Deep Learning** based **Object Detection** and **Classification models**.
- First of all, created **Annotated visual dataset** of Indian Vehicles and then, we did **Custom Training** and **Transfer learning** on **YOLO V5**.
- As a research engineer, I did a detailed study on a research paper on **Image Compressed Sensing** using **Convolutional Neural Network**. ([Link](#))

ACADEMIC EXPERIENCE

Case study on Hand-written Text Recognition System and Reading Software ([Link](#))

- Case study on whole architecture of this network including **Convolutional Neural Network, Recurrent Neural Network** and **Connectionist Temporal Classification**. Idea Inspired from **Microsoft Edge read aloud** function.
- I converted the whole code in **Tensorflow 2.0** then, using **python-opencv contour detection** cropped all words from image and finally using windows 'SAPI' program will speak the predictions given by the model.

Automated Skin Disease Identification using Deep Learning Algorithm ([Link](#))

- A Deep Convolutional Neural Network to predict the type of skin disease, patient may be infected from.
- Everything From data-cleansing to deployment is done by myself only and backend is made in **Python-Flask**.
- Idea is taken from this research paper ([Link](#)) and model is trained on this dataset ([Link](#)).

Bank Management System ([Link](#))

- A complete software Including **GUI** with **Python-Tkinter, OOP** in python and **Database** connection with **MySQL**.

Number Plate Detection of Vehicle ([Link](#))

- Using python-opencv we made a program which can detect the number plate of Vehicles.

TECHNICAL SKILLS

Languages & Frameworks : C, C++, Python, Javascript, Keras, TF 2.0 , Opencv, Tkinter, Flask, Node, Pandas, Matplotlib.

Tools & Technologies: MongoDB, MySQL, Visual Studio, Pycharm.

LINKS

GitHub :- <https://github.com/TushaarDtu/>

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