

VISHAL KUMAR vk310402@gamil.com | LinkedIn Profile

CIVIL ENGINEERING (B. Tech 2020-2024)

INDIAN INSTITUTE OF ENGINEERING SCIENCE AND TECHNOLOGY, SHIBPUR

GitHub



EDUCATION

Examination	Year	Institute	CGPA / Marks(%)
B.TECH	2020-24	IIEST SHIBPUR	8.13/10
All India Senior Secondary School Examination	2018-20	CBSE	86.5 %

SCHOLASTIC ACHIEVEMENTS

➤ Secured 96.4 percentile in Joint Entrance Exam, Advance among 0.17 million candidates.

➤ Acquired **97.3 percentile in** Joint Entrance Exam, Mains among 0.93 million candidates

INTERNSHIP

Image-based Crack Detection using Machine learning Approach | ISM Dhanbad | Proof's, Piyali Sengupta

[2020]

- Assigned task is to detect or contours the concrete cracks created by artificial equipment in a lab. Through Deep Learning concepts have to teach machine to make difference in crack surface images & uncrack surface images which comes under Binary Classification.
- Made the CNN model using Transfer Learning and get training acc of 0.98 & validation acc 0.95 which seems no overfitting issues.
- Customized some pretrained model that is VGG16, RESNET and to train the model dataset used from Kaggle of Surface Crack Detection.
- Formulated computer vision tools on the crack images like Canny edge detection, Threshold (150), Contour to highlight on cracks. Link
- Operated the OpenCv2, PIL and patchify libraries to concert the large (3000x4000) sized image into small patches of size (225 x 225).

KEYPROJECTS

Human Pose Identifiers using Pose Net

[August 23`]

- Identified poses of one Human body at a time with total 12 joints with the help of Pose Net model contributed by google.
- Compiled on live server merged by processing language or its update version Pj5.js or ml5.js with the components of setup & draw Classification of Cats & Dogs Model | Self-Learning Project
- Based on CNN's for classification of Cats and Dogs from big datasets which classify it by an image at validation accuracy of around 77%.
- Executed new techniques of Deep learning that is Image Augmentation, Transfer Learning using various pertained model like VGG16, RESNET, Creating models of 4 Convolutional layers and respective MaxPooling layers, Normalizing dataset.

Sorting Visualization Website | *self-Learning Project*

[July 2022 – Sep 2022]

- Developed an interactive web application using JavaScript for visualization of different algorithms like Insertion sort, Bubble sort
- Deployed CSS for adding different animatic including hover effect, buttons, colour grading and visual effects for better visualization.
- Provided some features like sorting speed control factor with value slow medium fast and size range to enhance number of blocks. [JS]

TECHNICAL SKILLS

Programming Languages	• Python (Passed LinkedIn Batch), C++, NumPy, Pandas, Seaborn, ML Algorithm, NLP, Deep Learning, TensorFlow.
	• NodeJS, MongoDB, JavaScript, HTML – CSS Accomplished by Self study
Software	Jupyter, AutoCAD, VS code, Git Hub.

COURSES & CERTIFICATES

Databases and SQL for Data Science with Python IBM Convolutional Neural Networks in TensorFlow Coursera Introduction to TensorFlow for AI, ML and DL Coursera Machine Learning with Python VERZEO

POSITION OF RESPONSIBILITY

CHOREOGRAPHER | REFLEXOBETA CLUB HEST SHIBPUR

[July 2022 - Present]

- ➤ Worked as volunteer and coordinated one the most active club in IIEST SHIBPUR college fest, departmental activities, technical fest.
- ➤ Mentored more than hundred eager students in variety of dancing competitions and college-hosted events.
- ➤ Undertook more than ten dance sessions in every week.

VOLUNTEER | ROBIN HOOD ARMY(RHA) GAYA

[Oct 2020 - Oct 2021]

The RHA is a zero fund volunteer organization that works to get surplus food from restaurants and the community to serve less fortunate people.

➤ Audited for collecting food and leading the team to succeed drive in different spots. Ranked in the poster-making team by RHA GAYA.

EXTRA CURRICULARS

- Negotiated successfully on college annual fest REBECCA for group dancing with help of complete positive team ship by members.
- Participated and bagged rank 3rd in Group Dance Competition held in IIT BHU Kashi Yatra Fest

[2023]

- Solved 100+ problems in across different coding platform GFG, Leet-Code on topic include array, string, tree, stack, heap. [21-Present]
- Amplified highest typing Speed 70 Wpm in different Typing Platform like Monkey type, Typing.com, Typing Test

[2022]

Led and mentored a team for SPL cricket tournament and scored highest among all other teams among all teams.

[2022]