

PARTHIV A DHOLARIA

CSE IIIT D 2025

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✉ New Delhi, India

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EXPERIENCE

Summer Intern

CISPA – Helmholtz Center for Information Security

📅 May 2024 – July 2024

📍 Dortmund, Germany

- Aim: Study the Vulnerabilities and places of attack in TLS handshakes.
- Debugged the TCP and Kernel parameters.
- Scripts to automate the attack scenarios.
- Build a system capable of preventing any of such attacks.

EDUCATION

B.Tech in Computer Science & Engineering

Indraprastha Institute of Information Technology, Delhi

📅 CGPA: 8.25

📍 IIIT-D 2025

Senior Secondary Examination CBSE - Class XII

BHAVANS PUBLIC SCHOOL, DOHA, QATAR

📅 Percentage: 94.2%

📍 CBSE-2020-21

Higher Secondary Examination CBSE - Class X

BHAVANS PUBLIC SCHOOL, DOHA, QATAR

📅 Percentage: 96.2%

📍 CBSE-2018-19

POSITION OF RESPONSIBILITY

WebDev Team Member @ Google Developer Student Club

- Organized & Managed intra and inter college Tech Events.

Events-Team-Executive @ Salt N' Pepper food club

- Organized & Managed all events Activities.

TECHNICAL SKILLS

- **Programming Languages:** Java, C, C++, Python, JavaScript.
- **Web Development:** HTML, CSS, JavaScript and Django.
- **Machine Learning and Deep Learning:** TensorFlow and PyTorch, KNN, GMM, RandomForest, Neural Networks, Transformers, CNN
- **Natural Language Processing & Computer Vision, Computer Networks and Wireless Networks, Distributed Systems, Data Structures & Algorithm, Object Oriented Programming, Operating Systems, Database management and Sytems:** MySql

ACHIEVEMENTS

- Ranked 5th in Subtask 1 CodaLab Competition for the SemEval-2024 Task3.
- 89.78% accuracy on Google Speech Command Dataset(using GMM)
- 59.798 % on Human activity recognition dataset from UCL(using KNN)
- School Topper in 12th CBSE Board exam 2021-22

PROJECTS

TECPEC: Textual Emotion-Cause Pair Extraction in Conversations

- This project addresses SemEval-2024 Task 3, Subtask 1 which focuses on extracting emotion-cause pairs from conversations.
- A two-step pipeline architecture is introduced to identify emotion-cause pairs.
- The first step involves emotion classification for the utterances using a novel architecture. This approach was compared with OpenAI's GPT 4.
- The second step utilizes a Question-Answer model to identify causes for the target utterance based on the identified emotions.
- The project ranked 5th in Subtask 1 CodaLab Competition for the SemEval-2024 Task3.
- 🌐 parthivdholaria/TECPEC

A Comparative Study on Convolution and Transformer based SOTA Object Detection models

- Reproduced the Official Paper's results for DETR and EfficientDet on COCO Dataset.
- Qualitative and Quantitative Analysis on an unknown dataset (PASCAL VOC 2012).
- Qualitative Analysis: Pros and Cons of both EfficientDet and DETR.
- Quantitative Analysis: TIDE Analysis.
- 🌐 parthivdholaria/CV-Project.

Optical Character Recognition(OCR):

- Classification of alphabets from A-Z and digits 1-9.
- Accuracy of 99.4% on testing dataset.
- Model: Multi-stacked model on KNN, SVM, RandomForest.
- Performed EDA and other pre-processing techniques.
- 🌐 parthivdholaria/ML_Project_OCR

Raft Algorithm Implementation

- Scratch Implementation of Raft Algorithm.
- Implemented the Voting phase for leader election.
- Leader Lease modification to improve the Read efficiency.
- Implemented Log replication and consistency of database.
- 🌐 parthivdholaria/Raft

Online Retail Store

- A Django Web application deployed with the help of AWS.
- Made use of HTML, CSS, Javascript on front end.
- Allows user to create account, user-verification, password reset, shipping facilities.
- Paypal API for payment , cart functionality , track orders, shipping functionality .
- 🌐 parthivdholaria/OnlineRetailStore