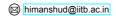
# HIMANSHU DUTTA





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### **PUBLICATIONS**

EnsembleDet: Ensembling Against Adversarial Attack On Deepfake Detection, JEI, Dec 2021 - Himanshu Dutta, Aditya Pandey, Saurabh Bilgaiyan

Wrapper Based Feature Selection Approach
Using Black Widow Optimization Algorithm for
Data Classification, CIPR 2022, Springer, Jun
2022 - <u>Himanshu Dutta</u>, M.K. Gaurisaria, Himansu

## **WORK EXPERIENCE**

### Intern Automation Engineer

### Autodesk



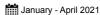


- Worked on workflow automation and integration of various technologies.
- Collected and processed data from internal services to generate knowledge.
- Designed, developed, and deployed solutions at scale to save man-hours.

## **Machine Learning Fellow**

### Fellowship.Al

Certificate





- Worked on real-world CV and NLP projects 

   involving SoTA research, such as SimCLR, FixMatch, etc.
- Researched and implemented recent work relating to the project.
- Contributed to the creation and curation of data for the project, with the client.

## **Machine Learning Trainee**

IIT Kanpur

Certificate



- Kanpur, India Onsite
- Learned to process and use data collected from loT devices to train ML models.
- Worked on a capstone project based on Natural Language Processing and Time series forecasting.

## **EDUCATION**

M.Tech. in Computer Science and Engineering

Indian Institute of Technology, Bombay ightharpoonup Mumbai, India

Guide: Prof. Pushpak Bhattacharyya

Graduation Year: 2025 (Tentative) Grade: 9.63 CGPA

B.Tech. in Computer Science and System

**AWARDS & ACHIEVEMENTS** 

KIIT University

♦ Bhubaneswar, India Grade: 9.65 CGPA

**Graduation Year: 2022** 

KIIT Merit Scholarship - Received Scholarship for performance in academics for three consecutive years.

## **TECHNICAL SKILLS**

## **Programming Languages**

Python, JavaScript, TypeScript, C, C++, Go, Shell Script

### Frameworks & Libraries

Pytorch, FastAI, Tensorflow, Django, React JS, React Native

## **Software Packages & Databases**

Selenium, OpenCV, MySQL, PostgreSQL

### Tools, Utilities & DevOps

Github, Docker, Nginx

### **Cloud Platforms & Services**

GCP, AWS, Firebase

### **PROJECTS**

StackHack

[Pytorch] HF Transformers | Django | Language Modelling |

- NLP based improvement on existing developer QA site.
- · Open-ended question-answering using language-modelling.
- · Semantic search based document retrieval.

SConnect Github

Python Typescript Django React Native Deepfake Detection

- Implemented the RESTful services in Django and used Django-Channels for web-socket based chat communication.
- Implemented the cross-platform application in React Native
- Integrated deepfake detection check on media upload.

Tarantino++
C++ Sockets HTTP Web Framework

- Created web-framework from scratch using UNIX system APIs.
- Wrote modular code for different levels of framework abstraction.
- Implemented HTTP protocol, TCP and Unix domain socket servers, etc. from scratch.



- Created a CLI tool to generate Python code from a set of topics and a description string.
- Used GPT2 model to frame the problem as a conditional Causal LM task.
- Collected, transformed and ingested data from scratch.
- Wrote reusable code for others to use and published a Python package.



- Created a cross-platform application(iOS, Android) to detect food ingredients from images and suggest recipes based on them.
- Designed end-to-end pipeline from the collection of data from web, to • object detection using YOLOv5 to finally model serving using torchserve.
- Wrote frontend application using React Native and endpoint using torchscript.