





HIMANSHU DUTTA


Last Updated: Jan 2024

 meet.himanshu.dutta@gmail.com

 himanshud@iitb.ac.in

 [+91 9828647472](tel:+919828647472)

 [himanshu-dutta](#)

 [himanshu-dutta](#)

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 - Himanshu Dutta, M.K. Gaurisaria, Himansu Das

WORK EXPERIENCE

Intern Automation Engineer

[Autodesk](#)

 June - Oct 2021


 Remote

- 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.AI](#)

[Certificate](#)

 January - April 2021


 Remote


- 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](#)

 May - July 2019

 Kanpur, India - Onsite

- Learned to process and use data collected from IoT 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  Mumbai, India

Guide: Prof. Pushpak Bhattacharyya

Graduation Year: 2025 (Tentative)

Grade: 9.63 CGPA

B.Tech. in Computer Science and System

KIIT University

 Bhubaneswar, India

Graduation Year: 2022

Grade: 9.65 CGPA

AWARDS & ACHIEVEMENTS

[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

[Github](#)

[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++

[Github](#)

[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.

PyCoder

[PyPI](#) [Github](#)

[Pytorch](#) [HF Transformers](#) [Docker](#) [FastAPI](#) [Typer CLI](#)

- 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.

MBC App

[Article](#) [Github](#)

[Pytorch](#) [Torch-Serve](#) [React Native](#) [YOLOv5](#) [Selenium](#)

- 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 torch-serve.
- Wrote frontend application using React Native and endpoint using torchscript.