

MD ASHIK KHAN

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ACADEMIC DETAILS

- **Indian Institute of Technology, Kharagpur** *Aug 2021 Present*
Master of Technology in Computer Science and Engineering
Supervisor: [Dr. Abir Das](#) CGPA : 8.41/10.00
- **Bangladesh Army University of Science and Technology, Saidpur** *Feb 2015 July 2019*
Bachelor of Science in Computer Science and Engineering CGPA : 3.35/4.00
- **Rajuk Uttara Model College** *June 2012 April 2014*
Higher Secondary Certificate GPA : 5.00/5.00

TECHNICAL STRENGTHS

Computer Languages	C/C++, Python, PHP, JavaScript, SQL
Tools & Libraries	PyTorch , MMAction , OpenCV , Pandas , NumPy , Laravel , React JS
Development Environment	Windows, Linux, Visual Studio Code, PyCharm, Jupyter Notebook

RELEVANT COURSEWORK

Machine Learning · Information Retrieval · Artificial Intelligence · Complex Network · Data Analytics · Scalable Data Mining · Database Management Systems · Algorithm Design and Analysis · Operating Systems

PROJECTS

A Large-scale Study of Representation Learning and the Benchmarking in Video Action Recognition 2022

IIT Kharagpur

Supervised By Dr. Abir Das

- Comparative study of Representation Learning with video action recognition by performing three types of experiments: Full-fine-tuning, Linear Evaluation, and Few-Shot Learning.
- Benchmarking 14 target video datasets across selected 2D, 3D & Transformer based video recognition models, pre-trained on two large-scale datasets.
- Generated **Construction** Action Recognition dataset for learning and evaluating construction action is the first of its kind.
- Tools/Technology: Python, PyTorch, MMAction2, PyAV, FFmpeg, Bash Scripting
- **Document Link:** [Report](#)

Evidence Retrieval for Fact Verification 2022

IIT Kharagpur

Supervised By Dr. Somak Aditya

- Evidence Retrieval for Fact Verification project focuses on collecting the related evidence based on a claim or fact using classical IR methods.
- This project carries a different approach to Evidence Retrieval with creation of collated data and measures the related evidence using tf-idf score and cosine similarity.
- Tools/Technology: Python, NLTK, BeautifulSoup
- **Source Code:** [Github](#)

Context Specific Quote Recommendation from Historical Text 2022

IIT Kharagpur

Supervised By Dr. Bivas Mitra

- Development of a context-based quote recommendation system using the Hugging Face DistilBERT model followed by dataset preparation and annotations from Quotation POTUS and encoding to feed in the model.

- Full-finetuned the model for learning and evaluating the quoted phrases, which obtained an improved performance over the prior Perceptron Model.
- Tools/Technology: Python, PyTorch, Hugging Face.
- **Source Code:** [Colab](#)

Online File Editor with Multi-Client Collaborator

2022

IIT Kharagpur

Supervised by Dr. Animesh Mukherjee

- Implemented file transfer protocol on top of TCP socket to transfer files from client to server.
- Designed an online text editor system with online collaborative features with roles and permissions which administrates multiple clients simultaneously.
- Tools/Technology: C, Socket Programming
- **Source Code:** [Github](#)

Web Crawling and Extraction of COVID-19 News

2022

IIT Kharagpur

Supervised by Dr. Pawan Goyal

- Developed a console-based application for query-based data extraction from more than 100 Wikipedia pages.
- Implemented Lex/Yacc compiler to create grammar using the syntax of HTML file of news downloaded from Worldometer & Wikipedia COVID-19 Timeline.
- Detected Country-wise top closest COVID-19 responded countries according to Jaccard similarity of extracted news and created Word Cloud.
- Tools/Technology: Python, PLY, Regular Expression
- **Source Code:** [Github](#)

WORKING EXPERIENCE & TEACHING

• **Teaching Assistant at IIT Kharagpur**

[Design & Analysis of Algorithms](#)

Autumn 2022

Responsibilities included: Conducting tutorials & lectures, mentoring a group of students during lab, and evaluating assignments.

• **Hovata Technologies**

Assistant Programmer

March 2020 - August 2022

Responsibilities included: Working on ERP and e-commerce projects in Laravel, implementing RestAPI with Lumen Micro Framework, testing and deploying, and building UI components with React JS.

• **MerinaSoft**

Junior Software Developer

September 2019 - February 2020

Responsibilities included: Developing inventory management projects based on Laravel, developing several android applications for customer requirements, and working on Project Management, client requirement Analysis, and UI Design activities.

ACHIEVEMENTS

- Awarded ICCR Scholarship to pursue M.Tech at IIT KGP under Bangladesh Scholarship Scheme, 2021-22
- Finalist at BAUST-IEEE idea contest 2018 ,BAUST
- Honorable Mention at Inter-University Programming Contest 2016, IUBAT, Dhaka
- Secured Board Talent Rank 35th in SSC Examination, 2012, Dhaka Board