

# Israt Jahan Dristy

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## Personal Profile

Passionate about the transformative potential of **Data Science, Machine learning, and Deep Learning**. I am pursuing an **M.Sc in CSE with a major in Data Science** at Brac University. As a dedicated **Python learner**, I am continuously expanding my skills in this universal language. My area of expertise includes **Machine Learning, Deep Learning, Computer Vision, and Natural Language processing**.

## Skills

Programming	Python (Pandas, PyTorch, NumPy, Scikit-learn, Keras, Tensorflow, MATLAB), Julia, Data preprocessing, Data Visualization, Feature selection, and Feature engineering, Model evaluation and selection, Hyperparameter tuning, Ensembling and model stacking, Visualization and interpretation, Use of Transfer Learning and Transformer model for Computer Vision and NLP Framework(Apache Spark, H2O, Ray, Caffe), R(ggplot2, tidyverse, caret), Java, PHP, C/C++, HTML/CSS, JavaScript, WordPress, SQL, Scala.
	Linux, Shell (Bash/Zsh), LaTeX (Overleaf/R Markdown),
	Tableau, PowerBI, Amazon Web Services (AWS), Microsoft Office, Microsoft Cognitive Toolkit (CNTK), Google Cloud Platform (GCP)
Miscellaneous	
Soft Skills	Ethical awareness, Documentation, Engaging Presentation, Time Management, Teamwork, Problem-solving, Analytical thinking, Attention to detail, Adaptability

## Publications

### CONFERENCE PROCEEDINGS

<b>Mental Health Status Prediction using ML classifiers with NLP-Based Approaches</b>	ICRPSET 2022
<b>ML Classifier Comparative Performance Analysis of Prediction on Cervical Cancer</b>	ICECIT 2021
<b>Symptomatic &amp; Non-Symptomatic Hepatocellular Carcinoma Prediction using Machine Learning</b>	ICECCME 2021
<b>Prediction on Intent Classification of Java and C# Web queries using Semi-supervision</b>	ICCIT 2021

**Technologies:** Programming Languages-Python

Machine Learning Libraries and Frameworks {scikit-learn, TensorFlow, Keras, PyTorch}

Data Manipulation and Analysis {NumPy, Pandas, SQL}

Data Visualization {Matplotlib, Seaborn, Plotly}

Development and Deployment {Jupyter Notebooks, Cloud Platforms}

Logistic Regression, Decision Trees, Random Forest, Support Vector Machines (SVM), K-Nearest Neighbors (KNN),

Clustering Algorithms, Naive Bayes

## Education

### Brac University

MSc in Computer Science and Engineering

• CGPA 3.90 Out Of 4, (Thesis ongoing)

• **Courses:** Data Science, Programming for Data Science, Knowledge Representation and Reasoning, Statistical Theory and Methods, Learning Skills through Case Studies, Artificial Intelligence, Machine Learning, Statistical Learning

Dhaka, Bangladesh

Feb 2021 - Current

### University of Asia Pacific

B.Sc in Computer Science and Engineering

• CGPA 3.04 Out of 4

Dhaka, Bangladesh

Oct 2015 - Nov 2019

## Chittagong Govt. Women College

College

- CGPA 3.70 out of 5.00
- Group: Science

Nasirabad, Chittagong

July 2012 - August 2014

## Chittagong Govt. Girls' High School

High School

- CGPA 5.00 out of 5.00
- Group: Science

Nasirabad, Chittagong

Jan 2006 - Feb 2012

## Work Experience

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### Bondstein Technologies Limited

Level 4, 138/1 Tejgaon I/A, Dhaka

1208,

Intern - Machine Learning

18th July 2023- 18th October 2023

- Cleaned and preprocessed raw data to ensure accuracy and consistency. Assisted in designing, training, and evaluating machine learning models. Applied techniques such as dimensionality reduction or feature selection.
- Created insightful visualizations to present results and findings. Participated in team meetings to discuss project goals, challenges, and progress.
- **Technical Skills:** Python with PyTorch, NumPy, Matplotlib, Pandas, Scikit-learn, C++, UML, Java, HTML, CSS Ubuntu Linux.
- **Soft Skills:** Teamwork, Time Management, Communication, Presentation skills.

### Dhaka Polytechnic Institute

Tejgaon, Dhaka

Part-Time Instructor

Sept 2020 - June 2023

- Led and mentored a team of instructors and staff to deliver high-quality, innovative, and engaging educational programs to students, resulting in improved learning outcomes and enhanced educational experiences.
- Developed and implemented new curriculums, teaching methodologies, and instructional technologies, leveraging advanced and emerging technologies to improve student engagement, retention, and success rates.
- Identified and solved complex educational problems and challenges through innovative thinking, strategic planning, and collaboration with stakeholders, including faculty, students, industry partners, and government agencies, resulting in increased institutional performance and improved student outcomes.
- **Technical Skills:** Python with PyTorch, NumPy, Matplotlib, Pandas, Scikit-learn, C++, UML, Java, HTML, CSS Ubuntu Linux.
- **Soft Skills:** Teamwork, Time Management, Communication, Presentation skills.

## University Projects

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### Voice-Based Email System for the Blind - Bmail

Dhaka, Bangladesh

University of Asia Pacific

- Creating a Register and Login Form for email.
- Creating a related Database.
- **Technical Skills:** JAVA, PHP, MYSQL, HTML, CSS.
- **Soft Skills:** Presentation skills, Leadership, Teamwork, Logical Thinking.

## Courses

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### **Data Analysis with R Programming**

Data Analysis, R Programming Basics, R Packages and Tool, Practical Projects, and Case Studies

### **Google Data Analytics**

Data Analysis Process, SQL, Excel for Data Analysis, Data Wrangling and Cleaning: Data Interpretation and Communication

### **Coursera Crash Course on Python**

Python Basics, Data Structures and Collections, File Handling and Input/Output, Functions and Modules, Exception Handling, Python Libraries, and Packages, Application Development

### **Google IT Automation with Python**

Using Python to Interact with the Operating System, Introduction to Git and GitHub, Troubleshooting and Debugging Techniques, Configuration Management, and the Cloud, Automating Real-World Tasks with Python

### **Introduction to Data Science in Python**

Python for Data Science, Exploratory Data Analysis (EDA), Introduction to Machine Learning, Text Mining and Natural Language Processing (NLP)

### **Introduction to Importing Data in Python**

**Datacamp** Introduction to Importing Data, Reading Data into Python, Data APIs and Interacting with Databases, Data Cleaning, and Preprocessing, Working with Data in Pandas, Data Visualization and Exploratory Analysis:

### **Cleaning Data in Python**

Working with DataFrames, Handling Missing Data, Data Formatting and Standardization, Data Duplicates and Outliers, Data Transformation, and Feature Engineering, Text Data Cleaning, Regular Expressions:

## **Languages**

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**English** Professional proficiency

**Bangla** Native proficiency