

Farjana Sultana Samia

[Website](#) ◇ [LinkedIn](#) ◇ [Github](#) ◇ samia.cse.miu@gmail.com

OBJECTIVES

To pursue a challenging and research-oriented career in the fields of Artificial Intelligence, Machine Learning, Deep Learning, Data Science, Natural Language Processing.

RESEARCH INTERESTS

Artificial Intelligence(AI) — Machine Learning(ML) — Natural Language Processing(NLP) — Data Science(DS)

STANDARDIZED TEST

TOEFL iBT : Total Score: 68 (Reading-11, Listening-20, Speaking-20, Writing-17)

Revised GRE : Total Score: 296 (Verbal-139, Quantitative-157, Analytical Writing-3.0)

EDUCATION

B.Sc. in Computer Science and Engineering

(Feb 2017 - Jan 2022)

Manarat International University(MIU)

CGPA: 3.90 out of 4.00

Thesis: Prediction of COVID-19 from Chest X-ray Images Using CNN And Pre-Trained Models

Higher Secondary Certificate

(2014 - 2016)

Shaheed Bir Uttam Lt. Anwar Girl's College(SAGC)

GPA: 5.00 out of 5.00

Secondary School Certificate

(2012 - 2013)

Uttara High School and College(UHSC)

GPA: 5.00 out of 5.00

PROFESSIONAL EXPERIENCE

Assistant Teacher (January, 2022 - Present)

- Math & Science Teacher
- Uttara Model Academy(UMA)
- Responsibilities:
 - Conducting 5th to 8th grade classes
 - Creating Math and Science questions

IT Expert (April, 2022 - Present)

- IT Support Expert
- Bonnie Store (E-commerce site)
- 20 hours per week(Remote job)
- Responsibilities:
 - Solving Bonnie Store website technical issues

- Developing new themes
- Website designing

TECHNICAL SKILLS

- **Programming Languages:** C/C++, C sharp, R, Matlab, Python
- **Deep Learning Libraries:** Tensorflow, Keras, Numpy, OpenCV, Matplotlib, Pandas.
- **Web Technologies:** HTML, CSS, Bootstrap, Asp.net, Python(Flask)
- **Data Science:** Web Scraping, Selenium

PROJECTS

Project 1 CIFAR-10 - Object Recognition in Images (Computer Vision)

[GitHub](#)

- Object Recognition in CIFAR-10 Images(CIFAR-10 dataset consists of 60000 32x32 colour images in 10 classes).
- Using Python Keras library.

Project 2 Flask based University CGPA system website

[GitHub](#)

- This semester grading system is using on Python Flask for software developing.
- I've used here Bootstrap and java scripts for designing the website.

Project 3 Basic Face Detection using CNN

[GitHub](#)

- I have applied a simple Transfer Learning model using python on my nephew's happy and sad photos
- It can detect my nephews happy and sad face properly.

RELEVANT COURSEWORKS

Undergraduate Courses:

- Structured Programming (C), OPP (Java), Data Structures, Algorithms, Statistics and Probability, Database Systems, Operating Systems, Software Development, Computer Graphics, Internet and Web Programming (HTML, CSS, Java Script, PHP), Computer Networking, Artificial Intelligence, Neural Networks and Fuzzy Systems, Pattern Recognition, Computer Vision and Robotics.

Courses:

- **Ishraak Solutions Limited** -Machine Learning
- **Coursera** - Data Science Math Skills

EXTRA-CURRICULAR ACTIVITIES

- **Microsoft Bangladesh**, *Brand Ambassador* (A Certificate of Recognition Brand Ambassador. Microsoft targets the youth and provides a platform for the people)(Aug 2018 - Dec 2018)
- **Young Bangla**, *Campus Ambassador* (With the motto "Connecting the Dots ", becomes a young talent to promote, share and spread out youth towards my community.)(Aug 2018 - Dec 2018)
- **Women Techmakers**, *Volunteer* (Spreading and Developing women are technologically strong through this team)(Jan 2017 - Mar 2019)

RESEARCH EXPERIENCE

Bangla Text Document Categorization

- I am currently working on a Natural Language Processing (NLP) based research work. Automatic document categorizing is an emerging research area in the field of NLP. In this categorization, I am using various Deep Learning and Machine Learning Models.

Undergraduate Research Work (Using Python)

- **Thesis Title:** Prediction of COVID-19 from Chest X-ray Images Using CNN And Pre-Trained Models
- **Brief :** Comparing Convolutional Neural Network And seven Pre-Trained Models performance using a single data-set which is "COVID-19 Radiography Database". Among all pre-trained models we got highest accuracy result from VGG-16 and EfficientNetB0 got the lower accuracy result.

TOOLS/SOFTWARE

- Github, VS Code, Jupyter Notebook, Pycharm, Matlab, Photoshop, SQL Server, OS (Ubuntu, windows)
- **Document Processing:** LaTeX, MS Office, Adobe Illustrator, OriginPro.

REFERENCE

- Naimul Haque
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Manarat International University
Ashulia model town, Dhaka-1341, Bangladesh
E-mail: naimul@manarat.ac.bd
Cell-Phone: +880 1939023802
- Muhammad Sajjad Hussain
Associate Professor & Head
Department of Computer Science & Engineering
Manarat International University
Ashulia model town, Dhaka-1341, Bangladesh
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Cell-Phone: +880 1817000545

Transcript

ID No. 1743CSE00584

Serial No. 005350

MANARAT INTERNATIONAL UNIVERSITY



PROVISIONAL CERTIFICATE

FOR

Bachelor of Science in Computer Science and Engineering

This is to certify that

Farjana Sultana Samia

having successfully completed the prescribed four-year course of study obtained the degree of Bachelor of Science in Computer Science and Engineering with Honours at this University in the Fall Semester of 2021.

Her Cumulative Grade Point Average (CGPA) was 3.90 in the scale of 4.00.

Date, Dhaka
April 18, 2022

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ACADEMIC TRANSCRIPT

Date: April 18, 2022

Department : Computer Science and Engineering
Program : Bachelor of Science in Computer Science and Engineering
Student ID : 1743CSE00584
Name : FARJANA SULTANA SAMIA
Father's Name : Aubdul Motin
Date of Birth : 15-October-1998

Grading System		
Marks Range	Letter Grade	Grade Point
>= 80	A+	4.00
75-79	A	3.75
70-74	A-	3.50
65-69	B+	3.25
60-64	B	3.00
55-59	B-	2.75
50-54	C+	2.50
45-49	C	2.25
40-44	D	2.00
< 40	F	0.00
Incomplete	I	0.0
Un-Withdrawn	U	0.0

Year Semester	Course Code	Course Title	Course Credits	Letter Grade	Grade Points
2017, Spring	CSE101	Essential Computing	3	A	3.75
	GED111	Fundamentals of English	3	A+	4.00
	MTH100	Engineering Mathematics	2	A+	4.00
	PHY102	Physics	4	A+	4.00
			Credit Earned: 12		SGPA: 3.94
2017, Summer	EEE101	Electrical Circuits	3	A-	3.50
	GED213	Composition and Communication Skills	3	A+	4.00
	MTH104	Differential Calculus & Coordinates Geometry	3	A+	4.00
			Credit Earned: 21		SGPA: 3.83
2017, Fall	CSE104	Discrete Mathematics	3	A-	3.50
	CSE207	Object Oriented Programming	4	A-	3.50
	EEE102	Basic Electronics	3	A+	4.00
	GED316	Quranic Language	3	A+	4.00
			Credit Earned: 34		SGPA: 3.73
2018, Spring	CSE203	Theory of Computing	2	A	3.75
	CSE208	Data Structure	3	A	3.75
	GED122	Basic Concept of Islam	3	A	3.75
	MTH204	Linear Algebra and Matrix	3	A-	3.50
			Credit Earned: 45		SGPA: 3.68
2018, Summer	CSE209	Digital Logic Design	3	A+	4.00
	CSE210	Algorithms	3	A+	4.00
	GED235	Life and Teaching of Prophet Muhammad (PBUH)	3	A	3.75
	MTH201	Integral Calculus & Differential Equation	3	A+	4.00
			Credit Earned: 57		SGPA: 3.94
2018, Fall	CSE211	Assembly Language	1	A+	4.00
	CSE302	Computer Organization & Architecture	3	A+	4.00
	GED327	Quran Science and Humanity	3	A+	4.00
	MTH203	Complex Variable and Fourier & Laplace Transformation	3	A+	4.00
	STS301	Statistics and Probability	2	A+	4.00
			Credit Earned: 69		SGPA: 4.00
2019, Spring	CSE303	Data and Computer Communication	3	A+	4.00
	CSE314	Microprocessor and Interfacing	3	A+	4.00



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Student ID : 1743CSE00584

ACADEMIC TRANSCRIPT

Year Semester	Course Code	Course Title	Course Credits	Letter Grade	Grade Points
2019, Spring	GED224	Bangladesh Studies	3	A+	4.00
	MTH311	Numerical Methods	3	A+	4.00
			Credit Earned: 81		SGPA: 4.00
2019, Summer	ACC201	Financial & Managerial Accounting	2	A-	3.50
	CSE304	Database Systems	4	A+	4.00
	CSE310	Operating Systems	3	A	3.75
	GED338	Environmental Studies	3	A+	4.00
			Credit Earned: 93		SGPA: 3.85
2019, Fall	CSE313	System Analysis and Design	3	A+	4.00
	CSE403	Computer Graphics	3	A+	4.00
	CSE443	Management Information System	2	A+	4.00
	MGT301	Industrial Management	2	A	3.75
	CSE414	Internet and Web Programming	2	A+	4.00
			Credit Earned: 105		SGPA: 3.96
2020, Spring	CSE312	Software Development	1	A+	4.00
	CSE402	Software Engineering	2	A+	4.00
	CSE410	Computer Networking	3	A+	4.00
	CSE412	Introduction to VLSI	2	A+	4.00
	ECO101	Economics	2	A+	4.00
			Credit Earned: 115		SGPA: 4.00
2020, Summer	CSE409	Compiler Design	3	A	3.75
	CSE411	Artificial Intelligence	3	A+	4.00
	CSE433	Neural Network and Fuzzy Systems	3	A+	4.00
			Credit Earned: 124		SGPA: 3.92
2020, Fall	CSE102	Structured Programming	3	A+	4.00
	CSE436	Pattern Recognition	3	A+	4.00
	CSE437	Computer Vision and Robotics	3	A	3.75
			Credit Earned: 133		SGPA: 3.92
2021, Fall	CSE400	Thesis Work / Project	4	A+	4.00
			Credit Earned: 137		SGPA: 4.00
					CGPA: 3.90

*CGPA is calculated on the basis of credits attempted.

Grade Explanation A+=Excellent, B=Good, C=Acceptable, D=poor, F=Fail

Required minimum CGPA or SGPA: 2.00



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