

# Kazi Noshin

+14347607377 | knoshin@illinois.edu | noshinxd.github.io/KN\_portfolio/ | github.com/NoshinXD | Google Scholar

## Research Interest

Human-Computer Interaction (HCI) – Information, Communication Technologies, and Development (ICTD) – Computer-Supported Cooperative Work (CSCW) – Human-AI Interaction (HAI) – Human-centered ML Design – Responsible AI – Computational Social Science – Social Computing

## Education

### University of Virginia

M.S. in Computer Science

- Current GPA: 4.00/4.00

Charlottesville, VA, USA

August 2023 – December 2025

### Bangladesh University of Engineering and Technology (BUET)

Bachelor of Science in Computer Science and Engineering

- CGPA: 3.68/4.00
- Last two-year CGPA: 3.84/4.00

Dhaka, Bangladesh

Feb 2017 – May 2022

## Publications

### AI Sycophancy: How Users Flag and Respond (Currently Under Review, Submitted to FAccT

2026)

Authors: **Kazi Noshin**, Syed Ishtiaque Ahmed, Sharifa Sultana

- In this study, we investigate how users detect sycophancy and respond to the sycophantic behaviour of ChatGPT by analyzing Reddit data.

### IRIS: Interpretable Risk Clustering Intelligence for Survival Analysis (2025 IEEE

International Conference on Big Data) [\[Link\]](#)

Authors: **Kazi Noshin\***, Bojian Hou\*, Mary Regina Boland, Zixuan Wen, Boning Tong, Li Shen, Aidong

Zhang

- This study introduces IRIS, a novel framework that enhances risk clustering and interpretability in survival analysis.
- It demonstrates superior risk stratification across benchmark and real-world datasets, including Alzheimer's disease and EHR data.

### Uncovering Important Diagnostic Features for Alzheimer's, Parkinson's and Other

Dementias Using Interpretable Association Mining Methods (Biocomputing 2025:

Proceedings of the Pacific Symposium) [\[Link\]](#)

Authors: **Kazi Noshin\***, Mary Regina Boland\*, Bojian Hou, Victoria Lu, Carol Manning, Li Shen, Aidong

Zhang

- This study leverages Electronic Health Records (EHR) to identify important predictive features for Alzheimer's Disease and Related Dementia (ADRD) using various Machine Learning methods.

### AI-Enabled Parkinson's Disease Screening Using Smile Videos (NEJM AI 2025) [\[Link\]](#)

Authors: Tariq Adnan, Md Saiful Islam, Sangwu Lee, EM Wasifur Rahman Chowdhury, Sutapa Dey Tithi,

**Kazi Noshin**, Md Rayhanul Islam, Imran Sarker, M Saifur Rahman, Ruth B Schneider, Jamie L Adams, E

Ray Dorsey, Ehsan Hoque

- This study presents an AI-driven method for screening Parkinson's disease by analyzing facial expression videos, specifically focusing on smiles.
- It demonstrates high accuracy and generalizability across different populations using ML models trained on facial features, suggesting a scalable and accessible tool for PD screening when clinical access is limited.

### Integrating Social Determinants of Health in a Multi-Modal Deep Clustering Survival

Model for Injury-Risk in Alzheimer's and Related Dementia Patients (AI for Medicine and

Healthcare: AAAI Bridge Program) [\[Link\]](#)

Authors: **Kazi Noshin\***, Mary Regina Boland\*, Bojian Hou, Weiqing He, Victoria Lu, Carol Manning, Li

Shen, Aidong Zhang

- This study shows that SDOH improves the clustering performance survival models.
- It finds that education is a key SDOH factor, underscoring its significance in Alzheimer's Disease progression.

## Research Experience

### Autism Caregiving Strategies: Informal Knowledge and Experience Shared on Reddit

(Manuscript under processing)

June 2025 - Present

Mentor: Dr. Sharifa Sultana (Assistant Professor, UIUC)

Collaborator: Dr. Karrie Karahalios (Professor, UIUC)

- Employing Statistical and Thematic Analysis to examine the strategies caregivers follow to address the challenges faced by children with autism.

## **Why is It Funny?: Contrasting Human and LLM Reasonings in Understanding Internet**

June 2025 - Present

### **Memes (Manuscript under processing)**

Mentor: Dr. Syed Ishtiaque Ahmed (Associate Professor, UofT)

- In this study, we compare how humans LLMs interpret humor in English and Bengali memes using quantitative and qualitative analyses.
- Using the Meaning Framework and Humor Transaction Schema, we identify cognitive and cultural gaps in their humor comprehension.

## **Alzheimer's Disease Prediction with Deep Learning approaches (MS Thesis) ([Link](#))**

(Graduate Research Assistant at University of Virginia)

August 2023 - May 2025

Supervisor: Dr. Aidong Zhang (Professor, University of Virginia)

External Collaborators: Dr. Li Shen (Professor, University of Pennsylvania), Dr. Mary Regina Boland (Assistant Professor, Saint Vincent College, USA)

## **Earthquake Early Warning System using Graph Neural Network**

(Research Assistant at BUET-Japan Institute of Disaster Prevention and Urban Safety)

July 2022 - Jan 2023

Supervisor: Dr. Mohammed Eunus Ali (Professor, BUET)

## **Automated Analysis of Parkinson's Disease (PD) Characteristics and Severity Based on Videos Collected via a Web-based Platform (B.Sc. Thesis) ([PDF](#))**

2021 - 2022

Supervisor: Dr. Mohammad Saifur Rahman (Professor, BUET)

External Collaborators: Dr. Ehsan Hoque (University of Rochester), Dr. Imran Sarker (NINH, BD)

## **Actionable Analytics of Cancer**

2021-2023

Supervisor: Dr. Mohammad Saifur Rahman (Professor, BUET)

External Collaborator: Dr. Abu Zafer Mohammed Dayem Ullah (Barts Cancer Institute, UK)

- Identifying the association of various clinical or molecular factors with the survival of patients diagnosed with cancers.

## **Teaching Experience**

### **Universiy of Virginia**

Charlottesville, VA, USA

Teaching Assistant

July 2025 - December 2025

#### **Courses Assisted:**

- CS 6205: Research Methods in Human-Computer Interaction (Fall 2025)
- CS 4501: Human-Centered Computing for Digital Well-Being (Summer 2025)
- CS 6316: Machine Learning (Fall 2024)

#### **Responsibilities:**

- Grading assignments and provided feedback.
- Leading weekly office hours and supported students on Piazza.

### **University of Asia Pacific**

Dhaka, Bangladesh

Lecturer (Full-time)

Aug 2022 - June 2023

#### **Courses Taught:**

- Introduction to CS and Programming Methodology • Structured Programming (C) • Data Structures • Software Development

#### **Responsibilities:**

- Efficient planning of assignments to enhance the student's ability to understand computer basics.

## **Notable Projects**

### **Webfitt Study**

HCI Project ([Github link](#))

2023

- In this study, we conducted a within-subject experiment with four participants using the Webfitt platform and analyzed the collected data to draw quantitative and qualitative insights.
- Language: Python

### **SHIKHON - The Admission Helper**

Software Development Project ([Github link](#))

2021

- The targeted users of the platform is University Admission Candidates and the purpose of the application is to provide tutorials, notes, and solutions about a particular topic of a particular subject. The main challenge of this project is to learn how to build an interactive live application.
- Language : Javascript, Library : NodeJS, Database : MongoDB, Frontend : React Native JS

## **Skills**

**Programming Frameworks** Python, R, C/C++, Javascript  
PyTorch, Keras, React-Native

**Tools/Software** Git, GitHub Actions, Hugging Face, Microsoft Word, PowerPoint, Excel, MATLAB, Latex

## **References**

- Sharifa Sultana** Assistant Professor, Computer Science, University of Illinois Urbana-Champaign, USA, email: sharifas@illinois.edu  
**Syed Ishtiaque Ahmed** Associate Professor, Department of Computer Science, University of Toronto, email: ishtiaque@cs.toronto.edu