KOYENA PAL

Machine Learning PhD Student, Teaching Assistant, and Researcher at Northeastern

CONTACT

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EDUCATION

Doctor of Philosophy, Computer Science
Northeastern University
Boston, MA, USA | May 2027 |
GPA - 4.00/4.00

Master of Science, Computer Science
Brown University
Providence, RI, USA | May 2022 |
GPA - 4.00/4.00
Thesis: Summarization and Generation of Discharge Summary Medical Reports

Bachelor of Science (Honors), Computer Science
Brown University
Providence, RI, USA | May 2021 |
GPA - 3.85/4.00
Thesis: The Effect of Multi-Document Summarizations on User SERP Experience

RELEVANT COURSES

- Machine Learning
- Deep Learning
- Special Topics in Data Science
- Software Engineering
- User Interface and User Experience
- Privacy-Conscious Computer Systems

SKILLS

- *Programming Languages:* Python, Ruby, SQL, Java, C, Scala, Go, XCode, DrRacket, OCaml, Latex, React, MATLAB, Javascript, HTML, C++
- *Industry Knowledge:* Programming, Research, Data Collection and Analysis, Software and Web Development, Project Management
- *Interpersonal Skills:* Teamwork, Mentoring, Communication, Leadership
- *Language:* English, French, Hindi, Bengali

WORK EXPERIENCE

INFORMATION SECURITY INTERN

AKAMAI TECHNOLOGIES | CAMBRIDGE, MA, USA | JAN 2022 - MAY 2022

- Created text summarization and recommender systems for a threat-intelligence dashboard.

INFORMATION SECURITY INTERN

AKAMAI TECHNOLOGIES | CAMBRIDGE, MA, USA | MAY 2020 - AUGUST 2020

- Designed mechanisms to achieve language consistency in Technical Risk Illuminator, a tool built to support executive decisions.
- Modeled a multiple-tag generator to identify key types of incidents from incident reports.

INFORMATION SECURITY INTERN

AKAMAI TECHNOLOGIES | CAMBRIDGE, MA, USA | MAY 2019 - AUGUST 2019

- Optimized the yearly audits process duration by building a systems register, which generates answers that business units require to show that they are PCI Compliant.
- Revamped the PCI Gap Analysis Template to streamline the process of products entering the PCI Compliance program for the first time.

INFORMATION SECURITY ANALYST INTERN

BROWN UNIVERSITY | PROVIDENCE, RI, USA | MAY 2018 - JULY 2018

- Substantially improved copyright ticketing process automation through network expansion in support of internal IP address, MAC address, and public IP username identification.

PUBLICATIONS

"Effectiveness of Association Rules Mining for Invariants Generation in Cyber-Physical Systems" - available in the IEEE Xplore Digital Library (https://ieeexplore.ieee.org/document/7911883)

RESEARCH & TEACHING EXPERIENCE

PHD STUDENT RESEARCHER

INTERPRETABLE AI LAB AT NORTHEASTERN | BOSTON, MA, USA | SEPT 2022 - PRESENT

- Researching on understanding and visualizing large language models such as GPT-2,3

GRADUATE TEACHING ASSISTANT

NORTHEASTERN UNIVERSITY | BOSTON, MA, USA | SEPT 2022 - PRESENT

- CS7150 Deep Learning: Collaborating with Prof. David Bau and another TA to design, organize, and teach this course.

STUDENT RESEARCHER

BROWN AI LAB FOR BIOMEDICAL INFORMATICS | PROVIDENCE, RI, USA | SEPT 2019 - PRESENT

- Developed a patient-centric literature summarization mechanism by implementing NLP models on biomedical texts.
- Conducted user study on effect of multi-document summarization on User Search Results Page (SERP) experience

RELATED EXPERIENCE

TA @ Brown | MENTOR @ Women's Launch Pad in Brown | INSTRUCTOR @ Inspirit AI | MENTOR @ WiCS Brown | RESEARCH INTERN @ iTrust Cyber Security Centre