

Sina Fathi-Kazerooni

sina@sinafathi.com | (516) 234-6790 | linkedin.com/in/sinafathi | github.com/sina5

SKILLS

Programming Languages:	Python, SQL, Bash, MATLAB, Java
Tools & Packages:	Keras, Scikit-learn, SpaCy, NumPy, Pandas, SciPy, StatsModels, Seaborn, Matplotlib, Excel, Jupyter Notebooks, Flask, AWS, Terraform, StackStorm
ML Technical Skills:	Generative adversarial models (GAN), Random forest, XGBoost, Support vector machines, KNN, Natural language processing (NLP), Textrank, Bert

SELECTED EXPERIENCE

AI Enablement Intern, CCC Information Services, Chicago, IL Oct 2020 - Present

PhD Candidate, NJIT, Newark, NJ Sep 2016 - Dec 2020

- Improved user privacy by using a network traffic generator based on GAN in Tensorflow with 99% success rate in lowering user traffic detection by adversarial ML algorithms
- Decreased performance of adversarial ML algorithms by designing three network traffic masking methods achieving up to 90% decrease in adversarial classifier performance
- Detected user software usage online by Internet traffic analysis using XGBoost, random forest, and support vector machines in Python achieving up to 94% precision
- Enhanced query expansion results by using TF-IDF and text clustering and achieving 70% quality of experience

Data Science Fellow, Insight Data Science, New York, NY May 2020 - July 2020

- Extracted summaries of 100 biomedical articles to give nutrition recommendations to pregnant women based on gut microbiome by using Textrank and Bert as a consulting project for Mamome company
- Imported biomedical articles related to healthy pregnancy and nutrition by using ArXiv and Pubmed's API for summarization and nutrition recommendation in an NLP pipeline
- Accelerated information retrieval from articles by ~ 95% by extracting relevant summaries in an automated AWS NLP pipeline

Teaching Assistant, NJIT, Newark, NJ Sep 2016 - June 2020

- Instructed the "Computer Communications Laboratory" course to 120 students during 9 semesters achieving exceptional student reviews in every semester
- Prepared course materials and designed experiments of "Computer Communications Laboratory"

DevOps Intern, CCC Information Services, Chicago, IL Jun 2019 - Aug 2019

- Accelerated support in DevOps group by creating AWS and OCI portal backends to automate cloud resource management reducing requests addressing times by ~ 80%
- Improved DevOps security checks by developing a web app using Flask gaining 75% speed up
- Minimized cloud access downtimes by creating a disaster recovery system in Terraform and ST2
- Designed high-performance computing bare-metal clusters on OCI with automated scaling and configuration to reduce the cost to one-third

EDUCATION

Ph.D. in Electrical Engineering - Computer Networks, New Jersey Institute of Technology	Dec 2020
M.Sc. in Electrical Engineering - Computer Networks, New Jersey Institute of Technology	May 2016
B.Sc. in Electrical Engineering - Electronics, Shiraz University, Iran	May 2014