ANIKA TABASSUM

in linkedin.com/in/anikatabassum ⚭ anikatabassum.com ⦿ github.com/atabas

EXPERIENCE

Software Developer - Python and DevOps
OpenText (Sept 2020 - Present)

- **Document Relation Engine** is used by OpenText Insight (a search engine + document review platform for legal matters). It ranks documents on relatedness, to reduce review times by surfacing the most relevant documents first.
- Introduced NLTK to extract phrases from documents during graph builds, to avoid discarding single-occurrence ngrams via the sliding window approach
- Implemented JSONlines format for command-line graph builds, to counter expensive loading of JSON files into memory all at once
- Optimized deletion of expected judgements (7.04 s to 0.37 s) and marking documents as expected in a project (8 s to 0.82 s)
- Ad hoc data analysis as required, including working with the principal data scientist to carry out experiments such as improving the scoring function
- Technical writing: on-boarding documentation, system design and abstract requirements, Windows-specific development notes

Research Assistant
Ryerson Multimedia Research Lab (Dec 2019 - July 2020)

- NSERC-funded project with **Dapasoft**: developed a system to classify heartbeat abnormality via ECG signals by transforming time series to images
- Achieved 5% higher accuracy (**98.7%**) than baseline for the MIT-BIH dataset

Software Engineer
Rubikloud (March 2017 - Aug 2018)

- **Promotion Manager** (promo demand forecasting at chain, store, sku levels) - Developed client configurations, customizable tables, resizable and sortable columns, row select and CSV export
- Sped up client configuration UI load time by **1.5x**; boosted frontend code coverage to more than **70%** via unit tests

Full Stack Developer
FlipGive (July 2014 - Feb 2017)

- **FlipGive** web app, **Schwan's Cares** and **Indigo Adopt a School**
- Developed team challenges UI, campaign activity, supporters features, top fundraising stories; automated change of marketing banners from the UI
- Implemented mobile-first approach; built HTML email templates and multiple Schwan's Cares UI redesigns

Ruby on Rails Developer
NoBul Media (April 2014 - July 2014)

SKILLS

Python | FastAPI | SQL | Docker
Machine Learning | Deep Learning
Numpy | Pandas | Scikit-learn
PyTorch | Apache Spark | AWS
Git | HTML | CSS

PUBLICATIONS

- **ECG Heartbeat Classification Using Multimodal Image Fusion**; Z Ahmad, A Tabassum, L Guan, N Khan; IEEE ICASSP 2021
- **An Efficient Confidence Measure-Based Evaluation Metric for Breast Cancer Screening Using Bayesian Neural Networks**; A Tabassum, N Khan; IEEE ICHI 2020

MENTORING

Career Project Reviewer
Udacity (Feb 2017 - Present)

- Review 1000+ nanodegree projects

Mentor
Thinkful (Sept 2017 - Oct 2017)

EDUCATION

MSc Data Science and Analytics
Ryerson University (2018 - 2019)
🎓 CGPA 4.33/4.33

BA Computer Science
McGill University (2009 - 2013)

ACCOMPLISHMENTS

- Ryerson Graduate Development Award
- Oracle Certified Associate Java SE7
- **Staff Writer** (Rising Stars, The Daily Star, 2007-2010) - Wrote for the youth supplement of the largest circulating English newspaper in Bangladesh; covered current events and youth issues