LAMIA SALSABIL

Norfolk, VA, 23508
lamia.salsabil3654@gmail.com | +1 347-233-8442
github.com/LiyaLamia | linkedin.com/in/lamia-salsabil-94719b154/1

Education

Old Dominion University (ODU)   Norfolk, Virginia
PhD in Computer Science; GPA: 3.71   Dec. 2026
Advisor: Dr. Jian Wu

Khulna University of Engineering & Technology (KUET)   Dhaka, Bangladesh
B.Sc. in Computer Science and Engineering   Feb. 2018

Skills

Languages/Lib	Python (NumPy, Pandas, scikit-learn, PyTorch), Ruby, C#, Shell, C++, R, JavaScript (jQuery, D3.js)
Web	HTML5, CSS3, Ruby on Rails (MVC), MySQL, PostgreSQL, MongoDB, Apache, Nginx, Git, JSON, XML, Agile (Scrum), Refinery CMS
Software	Weka, TensorFlow, Postman, Linux, SQL Server, Jira, Amazon Textract

Experience

Graduate Research Assistant, Old Dominion University   Norfolk, Virginia
                                                                                  Jan. 2021-Present
- Collaborating with Penn State for the grant from DARPA to develop a contrastive learning-based classifier to study computational reproducibility using URLs linking to open-access datasets/software (OADS) in scholarly articles. **Technology**: Python, BERT, GPT-3, TensorFlow, Contrastive Learning, Data Augmentation.
- Collaborating with Virginia Tech for the grant from IMLS on extracting metadata and pdfs of Electronic These & Dissertations (ETD) using OAI-PMH API and developing a repository that currently contains over 533K ETDs. **Technology**: Python, OAI-PMH API and MySQL.
- Developing a web service-based application for integrating feature extraction pipeline and deploying it. **Technology**: Ruby on Rails, Bootstrap, JavaScript, D3.js, and MySQL.
- Developed ETD-Page-Labeler for annotating pages of Electronic Theses & Dissertations (ETD) and extracted text, handwriting, and data from them. **Technology**: Python, HTML, JavaScript, and AWS Textract.
- Implemented a model to extract statistical errors from a paper with a best accuracy of 90.2% using Python, rpy2 package, and Statcheck module.

Software Engineer, Nascenia   Dhaka, Bangladesh
                                                                                  Jan. 2019-Dec. 2020
- Developed VAT software **Uddogi** for processing all transactions related to the raw materials and finished goods for any manufacturing company. **Technology**: Ruby on Rails, MySQL, HTML, CSS, and JavaScript.
- Developed a Content Management System for UNDP-LIUPCP. **Technology**: Ruby on Rails, MySQL, HTML, CSS, Refinery CMS, and leaflet.js.
- Nginx server provisioning for website hosting and deployment.
- Website optimization using GTMetrix which assesses a website by performance and accessibility.

Publications

- **Lamia Salsabil**, Jian Wu, Muntabir Hasan Choudhury, William A. Ingram, Edward A. Fox, Sarah J Rajtmajer, and C. Lee Giles. A Study of Computational Reproducibility using URLs Linking to Open Access Datasets and Software. In Sci-K '22: 2nd International Workshop on Scientific Knowledge, April 25–26, 2022, Virtual. ACM, New York, NY, USA.
- Xin Wei, **Lamia Salsabil**, and Jian Wu. Theory Entity Extraction for Social and Behavioral Sciences Papers using Distant Supervision. In Proceedings of the 22nd ACM Symposium on Document Engineering, 2022.

Projects

OADSClassifier   github.com/lamps-lab/oadsclassifier
- A hybrid classifier consisting of a heuristic and a supervised learning model to extract and classify URLs in scientific papers into two categories: OADS URLs (linking to open-access datasets/software) or non-OADS URLs with a best f1-score of 92%. **Technology**: Python, BERT, DistilBERT, TensorFlow, Logistic Regression, Supervised Learning.

Statchecker   github.com/lamps-lab/statcheckerr
- A tool to find statistical errors from scholarly papers with a best accuracy of 90.2%. **Technology**: Python, rpy2, Statcheck.

Crime Risk Factor Prediction   colab.research.google.com/drive/135RIyz6IH7KeEUhrpJvUytLlJpAc6GJL
- A machine learning model to predict crime risk factors using Chicago Crime Dataset. **Technology**: Python, Deep Learning, Supervised Learning.

Virtual Realtor   github.com/LiyaLamia/Virtual-Realtor
- A dialogue assistant that interacts with the user via a voice-enabled interface to find housing/apartments based on the user's requirements. **Technology**: Python, NER, RESTApi, Flair.

Volunteer Experience

- Event Manager, Association for Computing Machinery Women (ACM-W), ODU
- Mentor, Special Group Interested in Programming Contest (SGIPC), KUET
- Student Leader, Global Student Friendship, Norfolk