

# Mukund Srinath

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## EDUCATION

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<b>Pennsylvania State University</b> PhD, Informatics Co-supervised by C. Lee Giles and Shomir Wilson	<i>Expected: December, 2023</i> GPA: 3.85
<b>Pennsylvania State University</b> MS, Information Sciences and Technology	<i>August, 2017 - May, 2019</i> GPA: 3.88
<b>R. V. College of Engineering, India</b> BE, Electrical and Electronics Engineering	<i>August, 2011 - May, 2015</i> GPA: 8.94

## WORK EXPERIENCE

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Trustpage <b>Machine Learning Intern</b>	Detroit, MI <i>May, 2022 - August, 2022</i>
<ul style="list-style-type: none"><li>· Designed evaluation metrics to track performance of company-wide suite of machine learning models.</li><li>· Implemented and deployed a question similarity model on GCP, improving on existing implementation by 12%.</li><li>· Applied feature engineering and synthetic data generation techniques on a task with few training samples.</li><li>· Created visualizations of results and communicated results to non-technical teams.</li></ul>	
ClearAvenue <b>Software Engineering Intern</b>	Columbia, MD <i>May, 2018 - August, 2018</i>
<ul style="list-style-type: none"><li>· Designed a proof-of-concept to improve medical device security in software defined networks.</li><li>· Explored unsupervised anomaly detection methods to detect potential network security threats.</li></ul>	
McFadyen Digital <b>Software Engineer</b>	Bangalore, India <i>July, 2015 - July, 2017</i>
<ul style="list-style-type: none"><li>· Implemented a full-life-cycle webapp of a human resource information system supporting ~500 users.</li><li>· Developed backend and frontend eCommerce features for search, payment and checkout functionality.</li></ul>	

## RESEARCH EXPERIENCE

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Human Language Technologies Lab <b>Research Assistant</b>	Pennsylvania State University <i>August, 2019 - Present</i>
<ul style="list-style-type: none"><li>· Applying natural language processing and information retrieval techniques to analyze privacy policies at scale.</li><li>· Created a novel crawling technique to collect the largest corpus of privacy policies containing over 2M policies.</li><li>· Designed, created and maintain, end-to-end, <a href="#">PrivaSeer</a>, the first privacy policy search engine.</li><li>· Achieved state of the art results on classification, named entity recognition (NER) and question answering tasks on privacy policies by creating PrivBERT, a privacy language model.</li></ul>	
PIKE Group <b>Researcher</b>	Pennsylvania State University <i>August, 2017 - July, 2019</i>
<ul style="list-style-type: none"><li>· Designed a novel technique to select best answers from a list of non-fact-based questions by generating questions.</li><li>· Implemented a convolutional neural network (CNN) based algorithm using TensorFlow to rank answers achieving a precision@1 score of 0.452 and mean reciprocal rank of 0.59, thereby setting a baseline for a novel dataset.</li></ul>	

## AWARDS

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- **2nd place** in HackPSU, 2019 for [Beyond Tweet](#), an application that combines geospatial census data with tweet sentiment to help make market predictions.
- **2nd place and \$20,000 in funding** in Nittany AI Challenge, 2018 for [ProFound: A professor search engine](#).
- **3rd place** in HackPSU, 2018 for [WeatherOrNot](#) an application to recommend vacation destinations.
- **1st place and honorable mention by IBM** at HackPSU, 2017 for [FindViser](#) an application that suggests research advisers to graduate students.

## ADDITIONAL PROJECTS

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### Personal Information Type Extraction

Designed a novel scalable technique to extract the types of personal information collected from users from over 1.4 million privacy policies. Trained a BERT based model to identify valid personal information types given inputs of noun phrases and their POS tags.

### Fake News Prediction

Designed a two-stage approach to fake news detection based on text coherence and sentiment features. Obtained state of the art results on AICS18 workshop challenge with an precision of 86%.

### ProFound: Professor Search Engine

Designed an end-to-end system to track professors based on research topics and interests. Crawled, indexed and ranked ~500 academic websites.

## SKILLS

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<b>Programming Languages</b>	Python, Java, Javascript, C++
<b>Frameworks and Packages</b>	TensorFlow, PyTorch, scikit-learn, ElasticSearch, Scrapy, Django, SQL

## PUBLICATIONS

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Pranav Venkit, **Mukund Srinath**, Shomir Wilson  
*A Study of Implicit Language Model Bias Against People With Disabilities*  
29th International Conference on Computational Linguistics (**COLING**, 2022)

**Mukund Srinath**, Shomir Wilson, C. Lee Giles.  
*Privacy at Scale: Introducing the PrivaSeer Corpus of Web Privacy Policies.*  
59th Annual Meeting of the Association for Computational Linguistics (**ACL**, 2021)

**Mukund Srinath**, Soundarya Sundareswara, Shomir Wilson, C. Lee Giles.  
*PrivaSeer: A Privacy Policy Search Engine.*  
International Conference on Web Engineering (**ICWE**, 2021)

Soundarya Sundareswara, Shomir Wilson, **Mukund Srinath**, C. Lee Giles.  
*Privacy Not Found: A Study of the Availability of Privacy Policies on the Web.*  
Symposium on Usable Privacy and Security (**SOUPS**, 2020).

**Mukund Srinath.**  
*Convolutional Neural Network and Question Generation Based Approaches to Select Best Answers for Non-Factoid Questions.*  
(**Master's thesis**, Pennsylvania State University, 2019)