Tanaya Babtiwale

tanayab@uw.edu | +1-(206) 209-8854 | Seattle, WA

linkedin.com/in/tanayababtiwale/ | bit.ly/tanaya-gscholar

Education

University of Washington, Seattle   Sep 2022 - Present

Masters of Science, Computational Linguistics (NLP)   *Seattle, WA*
- *Relevant Courses:* Deep Techniques in NLP, Shallow Techniques in NLP, Syntax Engineering, Semantic Theory

NMIMS University   Jul 2016 - Aug 2020

Bachelor of Technology, Computer Engineering   *Mumbai, India*
- *Relevant Courses:* Advanced Database Management, Predictive Modeling, Artificial Intelligence, Distributed Computing, Object Oriented Software Engineering, Data Structures, Design and Analysis of Algorithms

Skills

Programming Languages: Python, Java, Web Ontology Language

Tools & Frameworks: PyTorch, Tensorflow, Keras, Huggingface, Scikit-learn, RASA, Protegé, RDF

Data Operations: SQL, MongoDB, ElasticSearch, Apache PySpark, SPARQL, NoSQL, SAS, Tableau

Development: AWS, CUDA, Django, Docker, CI/CD, Git, Data Version Control, UNIX OS (MacOS), Linux OS

Experience

Haptik   Nov 2020 – Sep 2022

Machine Learning Engineer - II   *Mumbai, India*
- Developed and scaled over 10 features like multilingual entity detection and question-answering engine in ML stack (Django, AWS) to get dialogue systems to 85% automation rate for over 10 million queries daily across 400 clients
- Conducted research in deep learning domain with PyTorch, Sentence Transformers, GPT3, ByT5 on projects like end-to-end dialogue policy, one-shot intent detection, inverse text normalization, and article search & retrieval

IBM Research Labs - AI   May 2020 – Aug 2020

Research Intern   *Bangalore, India*
- Derived semantic meaning representations from knowledge graphs to interpret implicit intent from BI queries
- Built a state-of-the-art NLIDB framework with OWL ontology reasoners in Java, and published it at COLING 2020

Mahindra and Mahindra   May 2019– Jul 2019

Summer Intern - AI   *Mumbai, India*
- Deployed business card information extraction for in-house visitor management using Tesseract OCR & XGBoost
- Collaborated on *Mood-o-meter*: a chatbot to gauge employee sentiments built employing RASA and Dialogflow

Episodic Labs   May 2018– Jul 2018

Intern - Natural Language Processing   *Ahmedabad, India*
- Generated game commentary for cricket using LSTM for NLG task from real-time statistics captured by BEMRR

Research Projects

Bringing Advances of NLP to Marathi | *Undergraduate Thesis*   NMIMS University
- Performed NER, Sentiment Analysis, and News Classification in Marathi language by designing custom BERT based neural network architecture, and deployed an Android application for it with OCR for Devanagri script

Publications

COLING 2020 - Schema Aware Semantic Reasoning for Interpreting Natural Language Queries

ICCUBEA (IEEE) 2019. Capsule Networks for Semantic Segmentation

(preprint) HDIAL: Dataset for granular benchmarking of dialogue system on recurring linguistic phenomena

Memberships

Women Who Code (WWCode)   Director, Mumbai

Certifications

Phonetics and Phonology   University of Mumbai

AI: Search Techniques for Problem Solving *(First Class)*   NPTEL, Indian Institute of Technology- Madras

Academic Alliance, Cloud Infrastructure and Services v2 - Cloud Certification   Dell EMC

Lean Six Sigma - Green Belt   KPMG

Awards

Award of Excellence for integrating information extractor with the product   Haptik, 2021

Winner - Science Slam, an intern-wide competition for research presentations   IBM Research Labs, 2020

First Runner-up - University's Android Competition for presenting Eyelog   NMIMS, 2018