Siddharth Sankaran Dinesh

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Education

University of California, San Diego Sep 2017 – Mar 2019
- *MS in Computer Science with ML/AI specialization; GPA: 3.93/4.0* *La Jolla, CA*
  TA - Data Analysis with Spark, Web Mining & Recommender Systems

- **Birla Institute of Technology and Science** Aug 2012 – Jul 2017
  BE in Computer Science and MSc in Economics *Goa, India*

Publications

- Beel, J., **Dinesh, S.** (2017). Real-World Recommender Systems for Academia: The Pain and Gain in Building, Operating, and Researching them. In BIR@ ECIR (pp. 6-17).
- Siebert, S., **Dinesh, S.**, Feyer, S. (2017). Extending a Research-Paper Recommendation System with Bibliometric Measures. In BIR@ ECIR (pp. 112-121).

Experience

- ***Data Science Intern*** @ **GoDaddy LLC**, ***Carlsbad, CA*** Jun 2018 – Sep 2018
  - Worked with a cross-functional team to deliver a production ready SMS reply suggestion feature, which is being user-tested for the SmartLine Android app
  - Created a data science platform with AWS to augment the SmartLine backend with topic models and NLP classifiers to support a question-answering system having sub-500ms latency for 95% of all requests
  - Led customer interviews aided by the UX team to define needs of target customers for smart reply feature and create ontologies
  - Built the text reply suggestion feature for any business hours related questions received by SmartLine users using RNN-based sentence embeddings and intent classifiers with Tensorflow
  - Enhanced the customer experience by creating personalized responses for other business specific ontology branches, such as location and product availability, providing suggestions for 18% of all incoming messages
- ***Research Assistant*** @ **NII, *Japan* & TCD**, ***Ireland*** Aug 2016 – Jul 2017
  - Implemented an open-source RESTful research paper recommendation system with Java Jersey and Apache Solr catering to 200,000 daily recommendation requests from researchers accessing digital libraries
  - Shipped an NLP-based recommendation approach that currently responds to 50% of all requests and evaluated trade-off in using terms and keyphrases for content-based recommender systems using A-B tests
  - Engineered a module to dynamically initialize algorithm parameters, reducing retried requests by 40%
- ***Research Intern*** @ **IIT - Madras**, ***India*** May 2016 – Jul 2016
  - Experimented and benchmarked various automated text summarization methods in Python to identify most scalable and efficient method in practice for diverse datasets

Projects

- **News Article and Social Media Post Integration** Sep 2017 – Present
  Python, Java, Solr, Spark, PostGres
  A language-independent NLP platform to link related social media posts and news articles in real time
- **Yelp Rating Prediction with 2017 Yelp Reviews Dataset** Oct 2017 – Dec 2017
  Python, Tensorflow
  Achieved 4.4% improvement over TransNet model by explicitly modelling higher order interactions
- **Image to Poetry Converter as a Flask Web-app** Jan 2016 – May 2016
  Python, Flask, Javascript, CSS, SQLite
  A Flask webapp to associate poetry to a user-provided image and retrieve user's relevance feedback

Programming Skills

- **Languages**: Python, Java, C, C++, Kotlin
- **Technologies**: Unix, Git, Apache Solr, Hadoop, AWS, MySQL, Tensorflow, Android, Spark