Arnav Arnav

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EDUCATION

Indiana University, Bloomington, IN, US **August 2017 – May 2019**
Master of Science in Data Science CGPA 3.88/4

Tezpur University, Tezpur, Assam, India **August 2012 – July 2016**
Bachelor of Technology in Computer Science and Engineering CGPA 8.98/10

TECHNICAL SKILLS

- **Languages**: Python, SQL, R, SAS, C++, Ruby
- **Data Analysis:** Numpy, Scipy, Scikit-Learn, Pandas, Librosa, NLTK, Tensorflow, Keras, Dask, PySpark,
- **Visualization:** Seaborn, Matplotlib, Altair-viz, Bokeh
- **Web Technologies**: Ruby on Rails, Flask, Django, HTML, CSS, Javascript, Ember.js
- **Other Technologies**: OpenCV, Amazon AWS, Swagger API, Docker, Travis-CI, Open Stack API, Kubernetes
- **Operating systems:** Linux (Ubuntu, Mint, Fedora), Microsoft Windows

WORK EXPERIENCE

The Walt Disney Company, Lake Buena Vista, FL **August 2019 – Present**
Decision Science Professional Intern

- Implemented a state space approach to dynamically adjust product level demand forecasts to match actual behavior based on newly observed data points in python and SAS
- Improved 70% of Disney Cruise Line booking forecasts with a mean improvement of 35% in absolute error using post-processing steps
- Performed feature engineering using PySpark and built models for daily attendance forecasting.
- Contributed to an internal framework that helps standardize and maintain production ML pipelines across different projects using different machine learning frameworks.

Indiana University, Bloomington, IN **August 2018 – May 2019**
Associate Instructor, Advanced Data Science On Ramp Course

- Evaluated student submissions and projects in various modules that cover, Hadoop, Spark, Scala, and Deep learning
- Created course content for Machine Learning with Spark module and updated content for Hadoop, Scala and Deep Learning Modules

Navyug Infosolutions, Noida, Sector 63, India **March 2017 – July 2017**
Software Engineer Intern

- Developed and deployed an internal project management web application and a mobile app using Rails and Cordova.

PROJECTS

Speaker Identification and Verification from Audio, Indiana University **August 2018 – December 2018**

- Trained a Siamese neural network based on VGGVox model on the VoxCeleb dataset using PyTorch on AWS and achieved 0.78 precision and 0.84 recall on the data
- Developed a terminal application for speaker identification and verification. Link to code (shorturl.at/psN15)

Image Captioning using Deep Learning, Indiana University **April 2018**

- Learned about state of the art Image captioning models
- Implemented an Encoder-Decoder based Deep Learning model derived from the show and tell approach that uses a CNN followed by an LSTM to learn mapping between images and captions in Keras
- Evaluation of the performance based on BLEU score of the model for various CNN models: VGG16, VGG19 and ResNet50. Link to the code (shorturl.at/rzNTW)

Open Domain Information Extraction, Indiana University **July 2018 – December 2018**

- Extract object-predicate relationships from text using various NLP modules and store them in a graph database to enable semantic search
- Linked Named Entities to various existing knowledge graphs (Dbpedia), and enriched the knowledge graph by adding information from various reliable sources such as Concept Net ans MS Concept Graph