

Arnav Arnav

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EDUCATION

Indiana University, Bloomington, IN, US

Master of Science in Data Science

August 2017 – May 2019

CGPA 3.88/4

Tezpur University, Tezpur, Assam, India

Bachelor of Technology in Computer Science and Engineering

August 2012 – July 2016

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, Tableau
 - **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
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WORK EXPERIENCE

The Walt Disney Company, Lake Buena Vista, FL

August 2019 – Present

Decision Science Professional Intern

- Implemented a state space post processing approach to dynamically adjust product level demand forecasts to match actual behavior based on newly observed data points using Python and SAS that improved 70% of Disney Cruise Line booking forecasts with a mean improvement of 35% in absolute error.
- Implemented data preparation, feature engineering, and output monitoring and built models for daily attendance forecasting using Pyspark, Teradata, Tableau and scikit-learn.
- 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.
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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

- Implemented a Multi input sequence-to-sequence 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
- Evaluated model performance based on BLEU score on test set for various CNN architectures: 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 and MS Concept Graph