ASHUTOSH TIWARI

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LinkedIn   Github   AnalaticsVidhya   Kaggle   Medium

EDUCATION

- **Indiana University**, Bloomington   Fall 2021 - Present
  Master of Science in Data Science (Computational track)
- **National Institute of Technology**, Patna   2011 - 2015
  Bachelor of Science in Computer Science and Technology
  CGPA **8.32**

EMPLOYMENT

1. **Swiggy,** Software Dev Engineer 2 (Jan 2019 to July 2021)
   DATA SCIENCE PLATFORM, DATA ACQUISITION PLATFORM
   - Part of Data Science Platform and leading Data Acquisition Platform
   - Data Acquisition Platform is a tool used to capture, schedule APIs (mostly third-party or other open APIs). The architecture includes a proxy service, request generation module, transformation module, and scraping module.
   - Feature store in DSP provides on-demand features to DSP models in sub ms latencies on a very large scale.
   - Worked on **Forecasting and Correlation Platform** which is used by teams to forecast concerning time series.

2. **Flipkart,** Software Development Engineer (ML) 1 (Sep 2017 to Jan 2019)
   SEARCH RELEVANCE
   - Involved in improvements in search intent model(CRF based) currently in production, identifying error classes, coming up with solutions, and fixing them.
   - Worked on Fasttext based query store classifier, which predicts the category of a query, a new model using bi-lstms is going to replace this in near future.
   - Wrote the first workflow to automate training and auto-deployment of various search models. First was written using Luigi and later migrated to Airflow.
   - Was involved with various POCs with Data Scientists for search intent models.
   - Wrote a generic framework using Airflow which at runtime creates generic dags for different ML models and orchestrates their training to deployment flow, including data and model validations.
   - Used Cascading to extract data from various user events and then converting it to a form that can be used as training data for our models.

3. **Groupon,** Software Development Engineer 1 (Sep 2016 to Sep 2017)
   - Cyclops is the interface to Customer Reps which they use to resolve customer queries and requests which is live in all countries in which Groupon operates. It talks to almost every microservice in Groupon and also exposes APIs to other internal services.

4. **NetSpeed Systems,** Software Engineer (Sep 2015 to Aug 2016)
   An innovative Silicon Valley SOC simulation startup, acquired by Intel
   - Implemented many modules single-handedly (Virtual Channel Arbitration, Polarity based Arbitration, Multi-Cast Filtering, Structural Latency Breakdown, etc.).

CERTIFICATIONS

- Udacity Advanced Machine Learning Engineer Nanodegree
- P.G. Diploma (Deep Learning) from **Indian Institute of Science, Bangalore**
- Natural Language Processing with Deep Learning in Python from **Udemy**

SKILLS

- **Machine Learning:** Tensorflow, Pytorch, Natural Language Processing, Computational ML, Computer Vision
- **Engineering:** Distributed Systems, Akka, Spark, Hadoop
- **Programming Languages:** Scala, Python, Java, C++

RELEVANT COURSES SO FAR:

- **Computational Machine Learning**
- **Deep Learning Systems**