

AMEY AMBADE

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EDUCATION

Columbia University

New York, NY

MS in Computer Science (Machine Learning Track)

Expected Dec 2018

Courses: ML, NLP, Deep Learning, AI, Analysis of Algorithms, Cloud Computing and Big Data

Indian Institute of Technology Indore, CGPA: 8.2/10.0

Indore, IN

B.Tech. in Computer Science and Engineering

May 2017

Minor in Humanities and Social Sciences CGPA: 9.0/10.0

TECHNICAL SKILLS

Programming Languages

Python, Java, C++, SQL, MATLAB

Tools & Technologies

TensorFlow, Theano, Keras, Linux, GitHub, LaTeX, Apache Tomcat

PROFESSIONAL EXPERIENCE

Schlumberger

Houston, TX

Data Scientist Intern, Enterprise Solutions Department

June 2018 - Aug 2018

- Designed a deep learning-based model to detect and classify erosion in drilling and measurement TeleScope tool to aid experts on rigs automate tool monitoring.
- Modeled and developed an LSTM model for predicting drill cracking based on time series data from bottom hole assembly sensors.
- Built a health analyzer application for predicting magnet subsystem sensor failures for PowerDrive tools.

École Internationale des Sciences du Traitement de l'Information

Paris, FR

Software Engineering Intern, Information Systems Department

May 2016 - Jul 2016

- Refactored the database schema for better usability and maintainability of AREL, an e-learning platform used by over 1500 EISTI students.
- Modeled and implemented methods to extract data from Oracle databases using Hibernate ORM for Java.
- Developed scripts for data extraction and helped restructure the web-app using the Spring framework in Java.

Teamchat by Webaroo Inc.

Mumbai, IN

Software Engineering Intern

May 2015 - Jul 2015

- Integrated widely used web services like Slack, Pocket, Yandex and Wikipedia with Teamchat's SDK and API platform using Java and RESTful APIs.
- Responsible for real-time notification and translation systems for direct access to data from Teamchat's web or mobile interface, that are commercially available to clientele today.

ACADEMIC PROJECTS

Contextual Neural Attentive Recommendation Machine, Columbia University

Jan 2018 - Apr 2018

- Built a deep learning based architecture to improve session-based recommendations for e-commerce scenarios where user profiles are invisible using an attention mechanism and context information about the user's actions.
- Achieved significant improvements in Recall@20 and MRR@20 scores over the present baseline methods on the YouChoose dataset.

Pictionary using PictoGANs, Columbia University

Jan 2018 - Apr 2018

- Designed and implemented a Generative Adversarial Network model called PictoGAN that can play Pictionary.
- Modeled multi-class data from the Quick, Draw! dataset to allow the generator network to produce output similar to human drawings of different objects.

Integro, Columbia University

Aug 2017 - Dec 2017

- Developed a Django web app to pull information from various services like YouTube, Wikipedia, Twitter and Reddit based on searches, and make recommendations using AWS DynamoDB and Lambda.
- Designed content-based and collaborative filtering-based recommendation systems and AWS Cognito for credential management and trained the model on Apache Spark with the Alternating Least Squares algorithm.