

# AMEY AMBADE

(646) 961-8378  
amey.ambade@columbia.edu  
linkedin.com/in/ameyambade

220 W 107<sup>th</sup> Street, #2A  
New York, NY 10025  
ameyxd.github.io

## 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 tool to aid experts on rigs to 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 on-site rig 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 and MRR 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.