

Amey Ambade

<https://github.com/ameyxd>
amey.ambade@columbia.edu | +91 769 283 6960

EDUCATION

COLUMBIA UNIVERSITY

MS in Computer Science

Dec 2018 (Expected) | New York

IIT INDORE

B.Tech. in Computer Science

May 2017 | Indore

Major in Computer Science & Engineering

Major GPA: 8.13 / 10.0

Minor in Humanities and Social Sciences

Minor GPA: 9.00 / 10.0

COURSEWORK

UNDERGRADUATE

Computational Intelligence

Computer Vision

Soft Computing

Operating Systems

Computer Graphics & Visualization

Parallel Computing

SKILLS

PROGRAMMING

Python • Java

C++ • Matlab

OTHER

Theano • Keras • \LaTeX

• MySQL

ACQUAINTED

Javascript • C/C#

HTML/CSS/PHP

WORK EXPERIENCE

ECOLE INTERNATIONALE DES SCIENCES DU TRAITEMENT DE L'INFORMATION

Software Engineering Intern

May 2016 – July 2016 | Paris, France

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

TEAMCHAT BY WEBAROO INC.

Software Engineering Intern

May 2015 – July 2015 | Mumbai, India

- 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.

PROJECTS

OBJECT RECOGNITION USING CNNs

July 2016 – Apr 2017 | IIT Indore, India

- Led the team working under Dr. Aruna Tiwari and Dr. Kapil Ahuja to develop an artificially intelligent system that can detect objects posing as a security threat in environments under surveillance.
- Designed the supervised learning algorithm on a CUDA-Theano-Keras backbone.
- Trained the CNN on a 60k CIFAR-10 dataset and tested it on optimally extracted frames from videos to achieve an accuracy of 80%.
- Prepared proposals and made presentations for funding and review.
- Presented at the Student Research Symposium 2017, IIT Indore.

MODELING 3D ROOMS

Jan 2016 – Apr 2016 | IIT Indore, India

- Built a 3D model of a home with interactive objects and developed game tactics based on movement and placement of those objects using OpenGL and C++.

ANALYSIS OF FACE DETECTION TECHNIQUES

Jan 2015 – Apr 2015 | IIT Indore, India

- Implemented the Viola-Jones face detection technique and analyzed its shortcomings in MATLAB.
- Used Haar classifiers and eigenfaces for training to detect presence, location and orientation of faces in images.

NON ACADEMIC

Placement Manager (IITI, 2016-17) • Chief Editor, Literary Club (IITI, 2015-16) • Founder, Astronomy Club (IITI, 2016) • Organizer, The LitFest (IITI, 2016)