

Akash Mondal

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EDUCATION

- **Indian Institute of Technology, Kharagpur** Kharagpur, WB
Bachelor in Technology in Civil Engineering; July 2016 – Present
- **Jawahar Navodaya Vidyalaya, Jamtara** Jamtara, Jharkhand
Intermediate of Science; Aug. 2013 – Apr. 2015

EXPERIENCE

- **CodeFire Technologies** Noida, Delhi
ML/AI Intern Summer 2018
 - **Factoid Q/A System:** Built an IR-based factoid question-answering system from scratch, capable of answering queries related to school admission, fetched answers using nltk's WordNet-based Word Similarity method
 - **FRT Prediction:** Predicted FRT Rate using DNN and supervised Machine Learning models with test set **accuracy nearly 90% in a limiting dataset** containing historical transportation data and also analyzed the seasonal effect on the same
 - **Web Content Extractor:** Developed a tool to extract less structured web content from noisy webpages that appear only once like Headline, Author Name, Published date, Story etc. of news articles

SELECTED PROJECTS

- **Car-Recognition Using CNN:** A simple convolutional neural network for car recognizer using keras library that achieves over 97% accuracy. Developed a keras and deep learning REST API using the saved trained model.
- **News Classifier:** A news classifier using DNN and NLTK that classifies a given news headline to one of the many labels, trained on a dataset containing various Indian news headlines, collected by scraping major Indian English news website using the open source library, newspaper
- **Waiting Time Estimation:** Developed a toolkit in MATLAB to investigate the operational viability of private buses taking an existing route in Kolkata. Used Johnson-curve-distribution to find the passenger waiting time distribution from available past passenger arrivals(scheduled/random) distribution data.
- **Q/A web platform:** Used PHP backed server to build a Q/A web application as a part of Udacity's Web development course with user-authentication features(login, logout, and register). Designed the database schema from scratch and used MySQL as backend database.

SKILLS

- **General:** Machine Learning, Deep Learning, Scalable Databases, Web Development
- **Languages:** Python, C++, C, SQL, PHP, HTML, VBA
- **Platforms/Tools:** GIT, MATLAB, GNU Octave, Linux, Windows

RELEVANT COURSES

Programming and Data Structures, Algorithm-I, Machine Learning, Core Databases, Probability and statistics, Financial Management, CPM, Basic Electronics, Transform Calculus

ACHIEVEMENT/COMPETITION

- **Competitive Programming: Global Rank-12 and 9th in India** in ACM-ICPC Asia Kolkata-Kanpur Onsite Replay Contest 2017 Competition at www.codechef.com. Team name: kgp16ce. Competition Link: <https://www.codechef.com/rankings/KOL17ROL>
- **Microsoft code.fun.do 2018:** Developed a simple expense and income manager using PHP backed server and MySQL as the backend database, where any individual can keep track of their expense and income using user-authentication features(login, logout, and register) Link: <https://codefundoiit.000webhostapp.com/>
- **Subject coordinator:** Among the **15 people** to be chosen as Basic EC subject coordinator and entrusted with the responsibility of guiding about **400 students** with course material problems for better understanding of the subject, conducting various tests, helping them in group projects and taking attendance.