3rd June 2019

Atmadeep Banerjee

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LINKS

Github:
https://github.com/Atom-101

LinkedIn:
www.linkedin.com/in/atmadeep-banerjee-a12539149

COURSEWORK

- Computer Programming
- Object Oriented Programming
- Logic in Computer Science
- Data Structures and Algorithms
- Database Management Systems

ONLINE COURSES

- Machine Learning (Prof. Andrew Ng's course audited through Coursera platform)
- Convolutional Neural Networks for Visual Recognition (CS 231n Stanford University, Spring 2017)
- Practical Reinforcement Learning (audited through Coursera)

SKILLS

PROGRAMMING
Python • Java • C • C# • Prolog

ML FRAMEWORKS AND LIBRARIES
Tensorflow • Keras • Numpy • Pandas • OpenCV • Scikit-Learn • Unity3D ML Agents

SOFTWARES
- Unity3D

ACCOMPLISHMENTS

2016
- Kishore Vaigyanik Protsahan Yojana (KVPY) Fellow

2018
- Was among the top 14 teams across India to qualify for the final round of Philips Data Science Hackathon at Philips Innovation Campus, Bangalore, India

EDUCATION

BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI
B.E. in Computer Science (In progress)
August 2017 - Present | Pilani, India
- Cum. GPA: 8.43 / 10

CALCUTTA BOYS' SCHOOL
March 2004 - April 2017 | Kolkata, India
- XII, Senior Secondary
  Indian School Certificate (ISC) Examination 2017 | 95.75%
- X, Secondary
  Indian Certificate of Secondary Education (ICSE) Examination 2015 | 96.4%

EXPERIENCE

PIXXEL | AI Team Campus Lead
May 2018 - Present
- Pixxel is a startup using AI models to extract information from remote sensing data. Has students across 3 campuses of BITS Pilani. Working on building a constellation of nanosatellites over India.
- Worked with multispectral data for crop yield prediction.
- Worked on models for segmenting buildings and roads from multispectral and optical imagery.

Website: https://pixxel.co.in

TITANIC APP | Machine Learning Intern
May 2018 – June 2018
- Trained a ResNet-50 classifier written in Tensorflow using transfer learning, to detect offensive images.
- Wrote the prediction module to run inference on unseen images.

Website: www.titanicapp.co

RESEARCH EXPERIENCE

STUDY PROJECT | Road Sign Detection using a CNN
August 2018 - November 2018 | Advisor: Dr. Kamlesh Tiwari
- Worked on a project sponsored by MapMyIndia, for detecting and classifying various Indian road signs in their private dataset.
- Studied various region based and single-shot object detection algorithms.
- Trained a network based on YOLO v3 algorithm.

PROJECTS

- Sentiment Analysis using a Convolutional Neural Network
  Stream tweets or news articles in real-time, depending upon search term given by user. Read streamed text corpuses using a CNN model and word2vec embeddings, and calculate mean sentiment on a scale of 0 to 1.
  https://github.com/Atom-101/SentimentAnalysis
- Generating Pokemon images using a GAN
  Scrape pokemon images from the internet through DuckDuckGo image search. Generate new Pokemon images using a Wasserstein GAN trained on the dataset.
  https://github.com/Atom-101/PokeGAN