

Agrawal Amey

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EDUCATION

BITS PILANI | B.E. (HONS.) IN COMPUTER SCIENCE

2014–2018 | Pilani

Cum. GPA: 7.66

EXPERIENCE

BHARAT HEAVY ELECTRICAL LTD (BHEL) | SOFTWARE ENGINEERING INTERN

May 2016 – July 2016 | Trichy, TN.

- Created a web-crawler and visualization tool in Node.js.
- Developed system log management tool using MongoDB and Python.
- Worked on a face recognition system based on Google's FaceNet.

DEPARTMENT OF VISUAL MEDIA | FRONT-END DEVELOPER AND GRAPHICS DESIGNER

August 2014 – Present | Pilani, Raj.

Designing and developing interactive websites for students organised festivals of BITS Pilani.

PROJECTS

ARXIV-SANITY V2.0 | FEBRUARY 2017

- Revamped Andrej Karpathy's Arxiv-Sanity for improved functionality and a better UI.
- Built upon the existing flask web server and migrated database to mongodb for scalability.

AUTOMATED NEWS-IN-SHORTS | NOVEMBER 2016

- Created an automatic trending news aggregator using natural language processing models and unsupervised machine learning techniques.
- Developed web clients and REST API using MongoDB and Node.js.
- Implemented processing algorithm using Numpy, NLTK, scikit-learn and gensim.

IMAGE CAPTIONING USING LSTM | OCTOBER 2016

- Developed a deep learning model for generating short descriptions of images based using CNN and LSTM.
- Implemented LSTM in python using Numpy for CPU and Tensorflow for GPU implementation.

SITEMAP-DRAW | JUNE 2016

- Created a site-map generator with back-end developed in Express (Node.js) and front-end in Javascript infoviz toolkit.

PREDICTING ELECTION RESULTS USING TWITTER | APRIL 2015

- Modeled a deep learning algorithm to perform sentiment analysis on tweets to predict results of 2016 US presidential elections.
- Implemented convolutional neural network from the ground up in python.

LACUNA | FEBRUARY 2016

- Created an online treasure-hunt for technical festival of BITS Pilani, played by over 500 users in span of 24 Hrs.
- Developed game using vanilla Javascript.
- Designed vector and raster graphics for game in CorelDraw and Photoshop respectively.

SKILLS

LANGUAGES

Python • JavaScript • C/C++ • Java
• Matlab • Prolog • Scheme • Verilog • x86 Assembly

DATABASES

MySQL/Oracle/SQLite • MongoDB
• Redis

WEB

HTML 5 • CSS/SCSS • JQuery • Express

MACHINE LEARNING

Numpy • Tensorflow • Keras

MISC

Shell Scripting • Git • \LaTeX • Markdown

DESIGN

CorelDraw • Photoshop • Illustrator

COURSEWORK

- Data Structures and Algorithms
- Object Oriented Programming
- Database Systems
- Operating Systems
- Advanced Calculas

- Linear Algebra
- Machine Learning
- Information Retrieval
- Neural Networks and Fuzzy Logic