SARTHAK GUPTA

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WORK EXPERIENCE

MULTIMODAL DIGITAL MEDIA ANALYSIS LAB (MIDAS), IIIT-D

Research Intern, December 2018 – Present

Working towards tacking some of the most cutting-edge multimodal research problems.

CHEGG, INC.

Intern, June 2018 – July 2018

Improved web page loading time by approximately 45% (benchmarked on Test Environment).

Technologies used: PHP, Apache, Docker, AWS, Jenkins, Jira, Newrelic

ZYLA HEALTH

Intern, June 2017 – July 2017

Designed and implemented an automatic diet generator system using Deep Learning.

Technologies used: Python, Tensorflow, Java, Dropwizard, MySQL

RESEARCH-BASED PROJECTS

● **Weakly Supervised Localization** using *Pytorch, Matplotlib*
  Implemented various research papers for weakly-supervised object localization using Convolutional Neural Networks (CNNs) as a part of Winter Training (2017) at NSUT.
● **Deep Dream** using *Pytorch, Matplotlib*
  Understood and implemented the deep dream research paper by Google.
● **Bonding-Based Routing in Opportunistic Networks** using *ONE Simulator*
  Assisted a PhD student at NSUT in the creation and implementation of a routing technique for Opportunistic Networks.
● **Reinforced-Routing in Opportunistic Networks** using *ONE Simulator*
  Proposed a routing algorithm using Reinforcement Learning as part of Minor Project at NSUT (2018).

PROJECTS

● **Desktop chat application** using *React, Redux, Firebase, Electron*
  Built a real-time chat application from scratch. Optimized the database schema for efficient read and write operations in Firebase. Made it available via web, and through desktop app too.
● **Neural Network from scratch** using *Python, Numpy*
  Built a neural network using object-oriented concepts. Made the code flexible and reusable.
● **Recurrent Neural Network (RNN) from scratch** using *Python, Numpy*
  Built an RNN using object-oriented concepts. Made the code flexible and reusable.

SKILLS

●	**Frameworks**	ReactJS | Redux | ElectronJS | Docker |Pytorch | Tensorflow | NodeJS | Firebase | SQL | MongoDB | Apache Web Server | Jest | Enzyme | Git |
●	**Languages**	C/C++ | Java | Python | HTML | CSS/SASS | Javascript | MATLAB | Bash | PHP |
●	**Concepts**	Data Structures | Algorithms | Operating Systems | Computer Networks | DBMS | OOPS | Artificial Intelligence | Machine Learning | Deep Learning | SDLC | Theory of Computation | Computer Architecture |

EDUCATION

B.E. (Information Technology)	2015-2019	Netaji Subhas University of Technology	79.56%
CBSE (Class XII)	2015	Oxford Sr. Sec. School	96.00%
CBSE (Class X)	2013	Oxford Sr. Sec. School	95.00%

ACCOMPLISHMENTS / POSITIONS OF RESPONSIBILITY

● Vice President of NSITOnline (student portal and blog) & Aagaaz (the Poetry Club of NSIT) (2018)
● Special Mention at HackData hackathon held at SNU (2017)
● Successfully organised Artificial Intelligence workshop under CSI NSIT (2017)
● Second prize at Ministry of Environment's All India Science Exhibition, India Habitat Center (2013)