

Neha Makhija

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OBJECTIVE

Contribute to Database research, leveraging and growing my skills.

EDUCATION

Ph.D. (Computer Science) 2019- Present

DataLab at [Northeastern University](#)

Bachelor of Engineering (Computers) 2015- 2019

Thadomal Shahani Engineering College, University of Mumbai **9.15/10**
Graduated with Principal's Award of Excellence

12TH Grade, Indian School Certificate (ISC) March 2015

Jamnabai Narsee School **94.8%**

10TH Grade, Indian Certificate of Secondary Education (ICSE) March 2013

Arya Vidya Mandir, Bandra (West) **95.3%**

EXPERIENCE

Machine Learning Intern September 2017- Present

Ushva Clean Technology

Researching and developing an energy disaggregation (NILM) model using deep learning networks for the solar inverters produced by the company.

Software Development Intern June 2017 – July 2017

NDS Global

Developed 3 Proof of Concepts for a client J B Hunt in a transportation logistics project using Spring framework, Apache Camel and ActiveMQ.

SELECTED PROJECTS

3D Facial Reconstruction using a single 2D Image August 2018- Present

Team of 3, Advised by Dr. Archana Patankar

Constructs 3D Facial model of a fairly frontal image with a residual blocks-based CNN model and 2D position map abstractions. Stack: Tensorflow, OpenCV.

TSEC CodeCell Competitive Programming Portal July 2018

Team of 3

Created, deployed Python Django website for TSEC students to solve weekly programming challenges, verifying their solutions and generating user ranklist.

Social Media Database Simulation April 2018

Team of 2

Implemented SQL distributed databases for social media application, executing queries and CRUD operations for vertically & horizontally fragmented data.

AR Drawing Aid October 2016 – February 2017

Mentored a team of 4 to build a Vuforia based Android App to project drawings on paper for tracing drawings. Won accolades at inter-colligate events.

TSEC Windows Phone App June 2016

Created official college application including RSS noticeboard, an assignment tracker, timetable, college and faculty information.

Luminator October 2015 – February 2016

Team of 5

Designed, built a book lamp powered by hand heat, with Peltier cells to convert temperature difference to voltage difference. Won Best Project of Project Club.

TECHNICAL SKILLS

Languages:

Proficient- Java, Python, C, SQL, JavaScript

Conversant- Haskell, PHP, Shell Script, C++, C#, Q#, Arduino

Machine Learning- Tensorflow, Keras, MATLAB/Octave

Android, Windows Development

Web Development- HTML, CSS, JS, jQuery, Processing.js, Three.js, Python Django

Git

CO-CURRICULARS

TSEC CodeCell 2017-18,

Co-Founder: Lead a team of 22, organizing semi-weekly workshops, competitions, reaching 300+ students to promote competitive programming.

Computer Society of India -

TSEC, Assistant Technical Head (Software): Built Apps, websites, mentored students, organized and conducted coding contests, workshops for two college festivals.

SYNC Project Club, 2015

Winner, Best Project

EXTRA-CURRICULARS

TSEC Synapse Magazine 2018, Editor

Rotract Club TSEC, Volunteer-Station Painting Initiative

ISC National Quiz Competition, 2015, 2nd Runner Up

Futuristic SAARC, Annual World Summit 2014,

Moderator

Arya Vidya Mandir

Secondary Prefect Body

2013, Head Girl