

SOFTWARE ENGINEER

EDUCATION

IIT Madras, NPTEL

Deep Learning Certificate, Percentage: 78%

Online

July, 2018 – October 2018

Course Syllabus:

History of DL | Multilayer Perceptron | Neural Networks, Backpropagation | Gradient Descent and its types | Principal Component Analysis | Autoencoders | Regularizations | Convolutional Neural Networks | Recurrent Neural Networks | Long short-term memory

SRM University Delhi - NCR

Bachelor of Technology, Computer Science and Engineering; CGPA: 8.0

New Delhi, India

Aug. 2015 – May 2019

Relevant Courses:

AI & Expert system, Soft computing, Logic of computer Science, Data Mining, Data Structure using C, Design and Analysis of Algorithms, OS, DBMS, Compiler Design, Cryptography, Applied Mathematics.

Presidium

Central Board of Secondary Education (CBSE) High School; Percentage: 83.2%

New Delhi, India

2013 – 2015

Relevant Course:

Physics, Chemistry, Mathematics, English and Computer Science with Python Prog. Lang.

SKILLS

Artificial Intelligence

Programming language	Python, PROLOG (Declarative Prog. Lang.)
Image processing	Python Imaging Library (PIL)
Computer vision	OpenCV
Natural language and processing	Spacy
Data analytics	Pandas, NumPy, SciPy
Data science & ml*	Sci-kit learn
Deep learning*	TensorFlow, Keras, PyTorch
Development Environment	Jupyter notebook, Python ide

Web development

Hypertext Markup language	Cascading style sheets
Python*	Jinja, Flask, Django

Android development

Programming language	Java
Frontend design	Xml, Adobe XD
Development environment	Android Studio
Database management	Firebase Database

Others

Programming languages	C, C++
Database management	MySQL, IBM DB2, SQLITE3

WORK EXPERIENCE

INTERNSHIPS

AAPNA Infotech Pvt. Ltd

New Delhi, India

Computer Vision Intern

June-Aug 2018

- Understood basics of *machine learning and computer vision* while independently developing a project.
- Automated facial recognition attendance monitoring system in *python* programming language and deployed on *raspberry pi 3*.
- There were further more projects in which I was part of their developing team.

Think Different Technologies Pvt. Ltd.

New Delhi, India

Android Application Development Intern

June-Aug 2017

- Worked on the live project name: 'Afewtaps',
- An app for restaurant food ordering for both the customers and clients by being physically present at the restaurant and ordering through table number.
- Native app with *Android Studio and Java* as programming language.

TRAININGS

Indian Institute of Science | Summer School-2018,

Computer science and Automation Dept.

- Summer school consists of lectures on,
- **Artificial Intelligence:** Deep learning, Reinforcement learning, Big data, Neuroscience.
- Blockchain: Game theory.
- System research, program testing and verification through ALLOY and Dafny
- Quantum computing with Quantum mechanics.

WAC (DTU Delhi) | June 2016

Embedded Systems and Internet of Things

- Understood the basic concepts of embedded systems and Internet of things.
- Developing project on internet-controlled vehicles through Arduino Nano connecting through WIFI module.

Later on, this project gave me an insightful vision for **Driverless/ self-driving cars**.

Non-Technical Business Development

Start-up India, Upgrad | 2 months Online | Plans

- Developed business plans and understood various commerce related terms which are beneficial to begin with a start-up.
- Examples: Employment agreements, term sheets, investors approach, marketing strategies, types of company, Job profiles, etc.

ACADEMIC PROJECTS

Computer Vision

Python

Open CV

Attendance Monitoring system with Facial Recognition

[GitHub](#) | [Presentation](#)

Description: Automated facial recognition attendance monitoring system for employees or students.

Intravenous Liquid Amount Detection

[GitHub](#) | [Report](#)

Description: *Canny edge detection* to figure the amount of liquid in drips, and raise an actuator if drip goes empty.

Intelligent Footfall Counter

[GitHub](#) | [Report](#)

Description: Whenever a person enters a mall or the store, the face features are extracted and stored in a database for a day so that there is no repetition and footfall count is updated.

Android App Development

Java

Android Studio

Restaurant Food Ordering | Afewtaps

[GitHub](#) | [Presentation](#)

Description: An app for restaurant food ordering for both the customers and clients by being physically present at the restaurant and ordering through table number.

Machine Learning*

Python

SK Learn

Air Quality Index Forecast

Description: Air Quality Index (AQI) forecast to predict the amount of greenery required or to Identify the decrease or limitation on the % of automobiles for a certain area to curb air pollution.

CO-CURRICULAR ACTIVITIES

Volunteering

[Marketing and Product Development](#)

[Enactus](#), Project AKSHAR (NGO)

- Developed a product (Akshar notebooks), marketed it & sold for further earnings to help the needy.
- Also, gifted them notebooks to increase literacy among them.

PUBLISHED

Articles:

(Available on [LinkedIn](#))

- Metro Rush
- Vehicular Ad-hoc Network (VANET)
- Smart Meeting room
- Review on Deep learning course by Prof. Mitesh Khapra

ADDITIONAL SKILLS

Team Player: built in leadership quality makes easy for me to manage people and many teams together.

- I have been a project leader for minor college projects.

Research Oriented: Love Researching about many fascinating innovative Technology.

- Studied latest Deep Learning research papers:
 - Dance Net
 - Neural Style Transfer
 - Auto encoders
 - Generative Adversarial Network

Creative Thinking: Solving Real Life problems through technology.

Problem Solving: Preparing well for competitive programming.

Activities

Running & Exercising: An avid runner, I usually run over 10 km a week.

Football: Regularly play 5-a-side with friends. Also participated in Inter-School, & District level Competitions.

Music: Enjoy many genres of music.

SPOKEN LANGUAGES

English: Proficient

German: Elementary

Hindi: Native

REFERENCES

1. Dr. Ajay Sharma, (HOD CSE), SRM University Delhi-NCR.
2. Mr. Jaipreet Bedi, CEO, Think Different Technologies P LTD.
3. Mr. Abhijeet Roy, founder and CEO, AAPNA Infotech P LTD
