

# Neeraj Verma

Roll No.:170005020

B.Tech - Computer Science and Engineering

Minor in Humanities and Social Sciences

Indian Institute Of Technology Indore

+91-7974610164

mems170005020@iiti.ac.in

the.n.verma@gmail.com

linkedin.com/in/n-verma

## EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology Indore	8.62 (Current)	2017-Present
Senior Secondary	CBSE Board	95.2%	2017
Secondary	CBSE Board	95.0%	2015

## PROJECTS

- **Skin Cancer Detection and Classification** *Jan. 2020 - Jul. 2020*  
*Dr. Aruna Tiwari*
  - Implemented a Convolutional Neural Network model to identify and classify skin cancer.
  - Tested various standard CNN models and custom CNN models for accuracy.
- **Computer Graphics Steam Engine** *Jan. 2020 - Jul. 2020*  
*Dr. Somnath Dey*
  - Immitated the working of a Steam Engine using OpenGL.
- **Grid Task Scheduling** *Aug. 2019 - Nov. 2019*  
*Dr. Kapil Ahuja*
  - Applied Particle Swarm Optimisation, Ant Colony Optimisation to solve the Grid-Task Scheduling problem with given number of resources and tasks with their mapping.
- **Music Map** *Jan. 2019 - May 2019*  
*Dr. Abhishek Srivastava*
  - Implemented a Music Map for Indore city, marked various locations and its speciality with respect to music.
  - Used google API for map plotting and Node.js, Bulma-CSS for website development.
- **Course Time-Tabling** *Jan. 2019 - May 2019*  
*Dr. Kapil Ahuja*
  - Applied Evolutionary Algorithms to design a course time-table for a given set of constraints.
  - Algorithms used : Genetic Algorithm, Ant Colony Optimization.
  - Analyzed them for their optimality and efficiency.
- **Clinic Management System** *Aug. 2018 - Nov. 2018*  
*Dr. Aruna Tiwari*
  - Created a database to model automated Clinic Management System, viz., appointment, room allotment, billing, etc.
  - Used JavaScript as a link between database and front-end; hosted on Tomcat server

## TECHNICAL SKILLS

- **Programming:** Python, C/C++, \*Java
- **Technical:** Machine Learning, Artificial Intelligence, Image Recognition, Computer Graphics
- **Tools/Frameworks:** Keras, Tensorflow, Node.JS (with express), Django
- **Database:** MySQL/MariaDB *\* Elementary proficiency*

## KEY COURSES TAKEN

- **Mathematics:** Calculus, Linear Algebra, Differential Equations, Complex Analysis & Numerical Methods
- **Computer Science and Engineering:** Discrete Mathematical Structures, Data Structures and Algorithms, Database and Information Systems, Automata Theory and Logic, Design and Analysis of Algorithms, Logic Design, Software Engineering, Operating Systems, Computer Architecture, Optimisation Algorithms and Techniques, Parallel Computing, Computational Intelligence, Compiler Design, Computer Networks, Computer Graphics
- **Minor & Others:** Psychology, History of India, International Economics, Chemistry, English Language and Communication, Engineering Graphics, Bio-sciences, Physics, Basic Electrical and Electronics Engineering, Basic Mechanical Engineering, Basic Manufacturing Techniques, Fundamental of Economics, Calculus, Linear Algebra, Differential Equations, Complex Analysis, Numerical Methods

## POSITIONS OF RESPONSIBILITY

---

- **Head**, Department of Creative Media, IIT Indore *Jul. 2019 - Apr. 2020*
- **Cheif Editor**, Cinephiles, IIT Indore - Movie Making Club *Apr. 2019 - present*
- **Captain**, St. Anne's School, Jodhpur *Jul. 2016 - Apr. 2017*

## EXTRA CURRICULAR

---

- **Technical Team Member**, FLUXUS'19 - Annual event of IIT Indore *2019*
- **Design Co-ordinator**, FLUXUS'19 - Annual event of IIT Indore *2019*
- **Runner-up**, Screenplay Writing, Inter-IIT *2018*
- **Team Member**, Mystic Hues, IIT Indore - Photography Club *2018-present*

## OTHER ACHIEVEMENTS

---

- **Branch Change**, Metallurgy to Computer Science *2018*
  - **Certificate of Completion**, Machine Learning A-Z course, Udemy *2018*
  - **Gold Medal**, Fictional Documentary, Inter-Branch Cultural Clash, IIT Indore *2019*
-