



# Shivam Garg

Entry No - 2018

B.Tech - Electrical Engineering

Indian Institute Of Technology, Ropar

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GitHub

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## EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	7.52/10 (Current)	2018-Present
Senior Secondary	Rajasthan Board of Secondary Education	93.60%	2017
Secondary	Rajasthan Board of Secondary Education	91.67%	2015

## WORK EXPERIENCE

- **WAI Technologies** Jan 2021 - Apr 2021  
*Software Development Internship* Pune, Maharashtra
  - Created a dictionary by finding patterns between **Form.io** and **surveyJS** JSON.
  - Designed an algorithm to migrate schemas and responses of existing Form.io surveys in surveyJS.
  - Integrated surveyJS API into the existing ASP.NET application.

## PROJECTS

- **Graph Editor Tool** Aug 2021 - Sep 2021  
*Self Guided* Github
  - A GUI application to edit, understand, and present the most complex graphs in a very meaningful and intuitive way.
  - Visualization of graph algorithms like **Bfs, Dfs and Articulation Points** through animation.
- **Market Basket Analysis** Sep 2020 - Oct 2020, IIT Ropar  
*Guide: Dr. Shweta Jain* Github
  - This project is to analyze the Large SuperMarket dataset to obtain the combinations of **frequent itemsets** by finding associations between the items, in the transaction history.
  - Implemented using **Apriori, Fp-Growth Algorithms** and used HashTree Structure to reduce the Time Complexity.
- **Research Work** Nov 2020 - Sep 2021  
*IIT Ropar*
  - Working on Real world Amazone dataset to **Predict customer demand** for re-manufactured products.
  - Analysing the **Electric Vehicle Routing Problem** to develop an efficient approach for the routing of an Electrical Vehicle from source to a destination such that the overall objective should be optimized.

## TECHNICAL SKILLS

- **Competitive Programming:**
  1. **CodeChef:** **5\*Star** rated coder with **2003(Max)** rating points. [handle **shivam\_4498**]
  2. **CodeForces:** **Expert** with the rating of **1726(Max)**. [handle **shivu\_8944**]
- **Programming Languages:** C/C++, Python\*, SQL
- **Software/Tools/libraries:** Visual Studio, Git, Jupyter, Google Colab

## KEY COURSES TAKEN

- **ComputerScience Courses:** Data Structure & Algorithm , Object Oriented Programming , DBMS, Operating System
- **DataScience Courses:** Machine Learning , DataMining

## MISCELLANEOUS

- **Newton's Grand Contest 2021**, Secured **1st Place in IIT Ropar** (130th Global Rank Out of 10,000 participants). 2021
- **LeetCode Weekly contest 261**, Secured **238th Rank**, Among more than 11000 participants. 2021
- **JEE Rank**, Secured a rank of **4498** (Out of **1.5 million candidates**) in JEE Advance 2018. 2018
- **5th Dist.Merit**, Senior Secondary **RBSE** Board **93.60 %** (Class-12). Dholpur,Raj,India. 2017
- **OIL INDIA SUPER-30**, Selected for the Project "OIL INDIA SUPER-30, JODHPUR" in May2017. 2017
- **National Service Scheme**, Member of the "**NSS Group**," at IIT Ropar. 2019