



SHANARAJ VK
Civil Engineering
Indian Institute of Technology, Bombay
Specialization: Transportation Systems Engineering

193040014
M.Tech.
Gender: Female
DOB: 28-11-1996

Examination	University	Institute	Year	CPI / %
Post Graduation	IIT Bombay	IIT Bombay	2021	9.57
Graduation	APJ Abdul Kalam Technological University, Kerala	SCMS School of Engineering and Technology	2019	9.29
Graduation Specialization: Civil Engineering				

SCHOLASTIC ACHIEVEMENTS

- Partnering with 3 other students in developing and analyzing various **choice models** for the **19th Travel Behavior Modelling** competition conducted by **University of Tokyo, Japan** [Aug'20-Present]
- Secured department **Rank 1** in civil engineering undergraduate batch of **115** students [May'19]

POSITIONS OF RESPONSIBILITY

Department PG Cultural Representative, IIT BOMBAY [June'20-Present]

- Addressed PG freshmen in the department **e-orientation** briefing the **department cultural activities**
- Spearheaded intra-departmental **online competitions and informal sessions** in collaboration with sports secretary
- Teamed with department council in creating the annual magazine **Civil Insights 2020**
- Coordinated with cultural nominee and club convenors in conducting various cultural events for the PG community

Student Companion, Institute Student Companion Programme (ISCP), IIT BOMBAY [Apr'20-Present]

- A member in a team of **144** student companions selected out of **356** applicants based on **interviews and peer review**
- Worked in a team of **177** people and helped the department coordinators in conducting **e-orientation** for **102** freshers
- Helped the department coordinators in developing and compiling the **Master's Handbook** for PG freshmen
- Trained by the **Student Wellness Center** and the **Gender Cell** in the institute towards better mentoring
- Mentoring **8** freshmen throughout the year in their academic and non-academic fronts during **covid-19 pandemic**

Volunteer for helping students from TEQIP-III Institutions prepare for GATE examination [Aug'20-Present]

- Helped in strengthening the fundamental concepts of GATE to UG students from Bihar

Teaching Assistant (TA), IIT BOMBAY

- (CE-751): Urban Transportation Systems Planning Assisting the instructor in delivering the online lectures, setting up quizzes and editing the lecture videos with **2** other TAs [Aug'20-Present]
- (CE-328): Transportation Engineering Lab-I Helped in conducting the lab experiments, maintaining the lab records, and evaluating the final exam (**120 students**) with **19** other TAs [July'19-Nov'19]

CERTIFICATIONS AND RELEVANT PROJECT

- Completed **Python for Data Science and AI**, 5 weeks course in **Coursera** and acquired **IBM Digital Badge**
- Completed **Statistics for Business Analytics and Data Science**, 6 hours course in **Udemy**
- Completed **Machine Learning with Python**, 5 weeks course in **Coursera** and acquired **IBM Digital badge**
- Completed **R programming for Data Science**, 10 hours course in **Udemy**
- Completed Open Source tools for **Data Science** in **Coursera** authorized by **IBM**

Course Project | Application of travelling salesman problem

Guide: Prof. Gopal. R. Patil

[Jan'20-june'20]

- Considered an example related to **e-commerce** where a delivery boy wants to cover all the points of delivery and return back to his origin node with least possible cost
- Coded the algorithm in **Python programming language** which returns the minimum-cost path

TECHNICAL SKILLS

- Familiar coding languages | **Python, R, MATLAB, C++**
- Software | **CUBE Voyager, QGIS, ArcGIS, NLOGIT, MS office, Adobe premiere pro**

EXTRACURRICULAR ACTIVITIES

- Cultural
 - Member of the **Gold-Winning** fashion show team of IIT Bombay in the **Inter-IIT Cultural Festival 4.0** with **10** other teams participated [Dec'19]
 - Selected as one among the **7** finalists in the **dance competition** conducted by Postgraduate Cultural Council, IIT Bombay [Oct'19]
 - Secured **3rd position** in the freshers' **Solo dance competition** conducted by Insync, the dance club of IIT Bombay [Sep'19]
- Others
 - Volunteering experience in National Service Scheme for 2 years in school [Aug'12-Feb'14]

Hobbies: Dancing, Watching TED Talks, Listening to music