Anshul Saraf

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Education

2018 | 2022 **Bachelor of Engineering in Industrial & Production Engineering**, *Shri Govindram Seksaria Institute of Technology and Science*, GPA: 7.57, *Indore , M.P.*

2016 | 2018 **High School Diploma in Mathematics and Physics**, *St. Paul Higher Secondary School*, GPA: 8.30, *Indore , M.P.*

Experience

2021 – 2021 **Research Scholar**, *IIT-Kanpur*, Kanpur , U.P.
- Conceptualize a model for hospital placement in a developing region, which can be further scaled to Fire-departments.
- Worked in a team to develop and test the model against the conventional model using modern optimization studio, CPLEX and GAMS.

2018 – 2019 **Technical Specialist**, *FSAE GS Racers*, Indore , M.P.
- Redesigned braking system of a formula-student car using SolidWorks
- Simulated wheel-assembly of current system with Ansys and optimized it for better performance to cost ratio.

Skills

Tech Stack	Python, C++, Kotlin, C, Java, Shell, Markup
Modelling	SolidWorks, CATIA, AutoCAD, GAMS, Ansys
Softwares	GIT, Android, SQL, TeX

Projects

Optimize-It, *Kotlin-MPP, Python, AWS, Android SDK*.
Designed an app for solving optimization problems in linear programming, vehicle-routing and constraint programming by implementing open-source optimization solvers such as SCIP, GLPK and CP-SAT with asynchronous API callbacks

Benchmark, *Python, Bash, Java, C++, C, Rust*.
Analyzing different languages on different levels of memory management, computation speed and compiler optimizations. Performed comparative analysis and visualization of different algorithms on different optimized languages.

Additional activities

Six Sigma White Belt Certification, *2021*.

Intel Edge AI Certification, *2020*.