

Sumit Kumar Chugwani

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Skills & Abilities

Languages C, C++, Python, HTML
Databases SQL, MongoDB

Projects

Final Year Project

Developed a gas sensor using graphene oxide and copper nanoparticles to detect nitrogen and methane gases. In the project graphene was synthesized by exfoliation method, copper nanoparticles conductive ink was synthesized to increase the conductivity of sensing material. The sensing material consisting of conductive ink and graphene was fabricated on PET.

Mini Projects

- Space Invaders:**
Designed Space Invader (shooting game) using Pygame module of Python. Score increases by shooting the enemy.
- 2048 Game:**
Designed 2048 game which is a single sliding block puzzle game using concept of OOPs in Python. Block with similar number gets add up. Game is won when 2048 block is made.
- Sudoku Solver:**
Designed a Sudoku Solver GUI in Python using Tkinter module and concept of recursion and backtracking.
- A* Path Finder:**
Designed a GUI which finds the shortest path between two given points using A* Search Algorithm. It takes into consideration of various obstructions in the path as well.

Internship

CSIR National Chemical Laboratory

3 Month

Research Intern

Worked on Process Development for conversion of Styrene to 2-phenylethyl alcohol using bimetallic catalysts of Nickel and Palladium. Hydrogenation of Styrene Oxide was conducted in a CSTR to produce 2-PEA. Detailed Analysis of product was done by GC-MS

Education

B. Tech, M.Tech Dual Degree in Chemical Engineering(2015 – 2020)

National Institute of Technology Rourkela

CGPA – 7.4

Intermediate in Science (2014)

Jawahar Navodaya Vidyalaya Chittorgarh (C.B.S.E.)

Percentage – 91.8

Achievements & Certificate

- Certificate in Data Structure & Algorithms in Python (Coding Ninja) (4 Months).
- Certificate for completing short term program on AI & ML using Python organized by Finland Lab in association with IIT Roorkee.
- Got a Scholarship for 1 year through AICTE GATE scholarship.
- Won 2nd Prize in Intra Hall Chess Competition held at NIT Rourkela in 2017.