



AJI S KUMAR

CHEMICAL ENGINEER

My Contact

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📍 Plot 175/B, Street 7, Smriti Nagar
Bhilai 490020, Durg,
Chhattisgarh, India.

📅 14-02-1997

Languages

ENGLISH



HINDI



MALAYALAM



TAMIL



Soft Skill

- Research and trend analysis
- Business planning
- Market research
- Decision making
- Communication
- Multi-tasking
- Data Collection & Analysis

About Me

Dedicated & perceptive Chemical Engineering with exceptional communication and interpersonal skills and over 2 years of experience. Proven leadership capabilities, who likes to take initiative and seek out new challenges. An adaptable organized and self-disciplined person who can work under pressure and tight schedules.

Professional Experience

Gautam Dyes & Chemicals Inc. | Sales Engineer October 2020 – Present

Key responsibilities:

- Identifying new customers for existing/new products and developing plans to support the growth of existing customers with the right technicalities.
- To bring the new business by targeting new market segments in the field of Chemicals, Petrochemical.
- Managed benchmarks, product demonstrations and testimonials for performance evaluation.
- Consult with the management team to develop long-term commercial plans.

Education Background

- **B. Tech Chemical Engineering, Deemed
Gautam Dyes & Chemicals Inc. | Chemical Engineer**

Institute: Sathyabama Institute of Science & Technology
CGPA: 6.84

- **XII, CBSE
Bhilai, Chhattigarh | 2015 January – 2016 March**

Institute: M. G. M. Senior. Secondary. School
CGPA: 6.0

- **X, CBSE
Bhilai, Chhattigarh | 2011 January – 2012 March**

Institute: M. G. M. Senior. Secondary. School
CGPA: 7.0

Achievements

Dance Competition Durg, Chhattisgarh | 2012

2nd Position in the All India Dance competition, organized by Kerala Samajam, Durg

Certificates

Workshops Chennai, Tamil Nadu | 2017 - 2020

- Power Lecture Series on "Catalysis for Sustainable Eco Engineering Design" sponsored by (CSIR) at Sathyabama Institute of Science and Technology.
- National Conference on Recent Advancement towards A Cleaner Environment, ACE-2019, conducted by Sathyabama Institute of Science & Technology
- Participated in the One Day Workshop on "Aspen Plus and Its Application in chemical industries, organized by Sathyabama Institute of Science & Technology.

Projects & Assignments

Mini Project: Adsorption of Norfloxacin and Ciprofloxacin using Almond Shell and Walnut Shell.

Chennai, Tamil Nadu | 2018 January - 2019 May

In this study, the preparation of activated carbon from the almond shell and walnut shell for the treatment of removal of the Pharmaceutical Personal Care Products (PPCPs) component. This study compares the adsorption value of both almond shells and walnut shells against Norfloxacin and Ciprofloxacin (CPX) solution. The prepared activated carbon biosorption depends on the particle size, pH, activation of pores and temperature. This study also extends its process through isothermal studies and the thermodynamic parameters were evaluated. Four adsorption isotherms namely, Langmuir and Freundlich were used to analyze the equilibrium data. Thermodynamic parameters were evaluated and the adsorption was endothermic showing monolayer adsorption of (PPCPs). The highest correlation for the isotherm equations in this system was obtained for the Freundlich isotherm. ASC is found to be an inexpensive and effective adsorbent for the removal of (PPCPs) from aqueous solutions.

Final Project: Synthesis and Characterization of Chitosan-MgO Nanocomposite towards the application of Anthracene Removal

Chennai, Tamil Nadu | 2019 January - 2020 May

Polycyclic aromatic hydrocarbons (PAH) constitute an important class of highly toxic environmental pollutants, which are metabolized into derivatives capable of reacting with DNA to promote mutagenic and carcinogenic responses. Anthracene has been chosen as one of the model PAHs because of its widespread occurrence in wastewater and surface water. In recent years Anthracene contamination in water systems has drawn increasing attention. The present research describes the removal of anthracene from an aqueous solution using one of the simplest agricultural wastes Chitosan by adsorption. Adsorption is chosen due to its cost-effectiveness. The study involves the evaluation of Isotherm studies, Chemical kinetics, and Thermodynamics during the adsorption process. The characterization of Chitosan is carried out using SEM-EDAX, XRD, TGA, and FTIR analysis. The concentration of Anthracene present in the sample before and after adsorption is determined by using UV/V in a spectrometer. Optimization of parameters such as temperature, time, dosage, concentration, pH was done.

Declaration

I hereby declare that the above-written particulars are true to the best of my knowledge.