**CURRICULUM VITAE**

**PREETHI G**

Education: M.Tech in Chemical Plant Design from NITK Surathkal

B.E in Chemical Engineering from Dayananda Sagar College of Engineering, Bangalore

Phone : 8971239765

E-mail : preethig777@gmail.com

**CAREER OBJECTIVE**

Seeking a position in an organization where I can utilize my knowledge and contributing my skills for organization’s success and synchronize with new technology while being resourceful, innovative and flexible.

**TECHNICAL EXPERTISE**

* Process and Equipment Design, Process Calculation for Equipments, Reaction Engineering and Kinetics, Sizing and Design of Process Equipments, Environmental Engineering, Polymer Technology, Heat transfer, Mass transfer, Petroleum Refinery Engineering, Fluid Mechanics, Risk and Safety Management, HAZOP, Process Control and Dynamics.
* Knowledge of computer skills in PYTHON, MySQL, Tableau, Predictive Analysis, Have knowledge in Machine Learning Techniques like Linear/ Logistic Regression, Generalized Linear Models, Tree based nonlinear models like Decision Trees, Random Forests, Clustering, Statistical Modeling, Hypothesis Testing and Correlation Analysis, Big Data, HDFS, Hadoop, Apache Spark.
* Pursuing **Post Graduate Diploma in Data Science** at **International Institute of Information Technology-Bangalore(Sep 2018 to Sep 2019)**

**PROFESSIONAL WORK EXPERIENCE**

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| **Organization** | **Designation** | **Period of Work** |
| Chennai Metco Pvt Ltd | Research Engineer | Jan 2018 to present |
| C-MET, Hyderabad | Project Engineer | June2017-September 2017 |
| E-Parisaraa Pvt Ltd | Chemical Engineer | March 201-June 2016 |

**Responsibilities handled so far**

* Development of Process Metallographic equipments
* Activities involved in the analysis of the metal structure for the development of the equipments
* Research & Development for the processes involved in the extraction of metals by chemical processes such as extraction, leaching, distillation and separation to recover valuable materials and eliminate toxic and hazardous elements.
* Involved in publishing the research methodologies in well known journals
* Activities involved in establishing Pilot plant based on the research
* Analytical result study of materials characterization using (EDXRF)-Energy Dispersion X-Ray fluorescence spectrometer, UV-Visible Spectrophotometer
* To develop and execute process development activities
* Performing synthetic chemistry reactions and reaction work ups

**ACADEMIC PROFILE**

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| **Academic Qualification** | **College/institution** | **Year of Passing** | **Percentage** |
| M.TECH  (Chemical Engineering) | National Institute of Technology Karnataka(NITK), Surathkal  (2013-2015) | 2015 | 6.6 CGPA |
| B E(Chemical engineering) | Dayananda Sagar college of Engineering, Bangalore | 2013 | 65.05% |
| XII | Jyoti Nivas PU college, Bangalore | 2009 | 66.66% |
| X | D B M & R J S High school, Bangalore | 2007 | 89.44% |

**PROJECTS:**

Worked at E-Parisaraa Pvt Ltd, Bangalore on the project entitled**, “Environmentally Sound methods for recovery of metals from Printed Circuit Boards"**, which involves Chemical engineering practices such as segregation, leaching and extraction of metals by Physico-Chemical reactions.

**M.Tech Project**

* **"Solids flow studies in a mass flow hopper"**

**DESCRIPTION:** The main objective of this project deals with the designing of a mass flow hopper for an effective flow of Bulk Solids(Sand, Sawdust, Charcoal & Paddy) and to bring about a thumb rule using various solid properties for determining the hopper angle and the outlet opening for achieving mass flow and also to quantify the stresses induced on the trapezoidal hopper walls for conditions of varying hopper half angle and outlet opening under mass flow and funnel flow conditions using load cells.

**B.E Project**

* **"Microwave assisted synthesis of guar gum grafted acrylic acid /nanoclay superabsorbent composites and its use in Crystal Violet dye absorption"**

**DESCRIPTION:** The main objective of this project deals with the study of swelling kinetics and the absorption rate of the dye by the superabsorbent polymer synthesized using montmorillonite nanoparticles, which is a great use in the waste water treatment and in the drug delivery systems.

**Other Projects:**

* Recovery of Bromine as Silver Bromide from Brominated Fire Retardant Plastics
* Recovery of Indium from LCD Screens
* Recovery of Platinum from Hard Disc Platters

**RESEARCH & REVIEW PAPER PUBLICATIONS:**

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| --- | --- | --- |
| **Sl No** | **Title of Papers, Authors names, Name of Journal, Year, Vol no, Page no etc** | **Impact Factor** |
| 1 | **Microwave assisted synthesis of guar gum grafted acrylic acid /nanoclay superabsorbent composites and its use in Crystal Violet dye absorption**,*Scirp Journal*, *Green and sustainable chemistry*, 2016, 6, 11-25.Authors- Preethi G, Chandan Bhat , Bhaskar, Shruthi , R R N Shylaja | 1.64 |
| 2 | **How e-waste is handled by unauthorized e-waste recyclers in India,** *IEEE India info,*Vol 12 No. 2 ,Apr-Jun 2017  Authors- Udhay Kumar, P Parthasarathy, Preethi | 1.29 |
| 3 | **E-Waste Recycling-Informal versus Formal,** *Internation Journal of Economic Research,* ISSN: 0972-9380, Volume 14, (10), 2017  Authors- Udhay Kumar, P Parthasarathy, Ritu Sinha choudry, Preethi |  |
| 4 | **Indian Consumer buying Behaviour towards Electronic Products,** *International Journal of Economics & Business*, Vol. 16, No. 2, (2017): 355-363. Authors- Udhay Kumar, R Krishnaraj, P Parthasarathy, Preethi |  |

**EDUCATIONAL EXPERIENCE**

INPLANT TRAINING:

* Apprentice Trainee at **Bharat Electronics Ltd**, Bangalore( Dec 2015-Feb 2016)
* **BASF INDIA** Ltd, Mangalore(December 2013)
* **Chemical Process Engineers**, Bangalore( May 2014-June 2014)
* **The Energy and Resources Institute (TERI)**, Bangalore( December 2012-June 2013)
* **Karnataka soaps and detergents limited**, Bangalore(June 2012)

**CO-CURRICULAR ACTIVITIES**

* Attended workshop on ‘Waste to Wealth”, conducted by The Electrochemical Society of India at Indian Institute of Science, Bangalore during June,2016
* Secured 3rd prize in chemical process equipment model making competition
* Participated in CHEMOVATION-2010,2012, a National level symposium
* Participated in Personal development programs
* Industrial visits to NSL SUGARS, Mangalore Refineries & petrochemicals Limited, Mangalore Chemicals & Fertilizers
* Participated in NCC

**PERSONAL SKILLS**

* Flexible in working
* Efficient problem solving skills.
* Communicate and interact with the team effectively and provide inputs among team members
* Focused, hardworking and self-confident.

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**PERSONAL DETAILS:**

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| Date of Birth | 07.09.1991 |
| Languages Known | English, Hindi, Tamil, Kannada ,Telugu |
| Address for Communication | #21, JV Layout, 100 feet ring road, Srinivagilu, Koramangala, Bangalore-560047 |

**Declaration:**

I hereby declare that the particulars of information and facts stated herein above are true, correct and complete to the best of my knowledge and belief.

**PREETHI G**