Rahul N

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Education

National Institute of Technology, Andhra Pradesh, India *2018 – Present*

B.Tech, Chemical Engineering *Expected Graduation 2022*

- SGPA: 9.35/10, CGPA: 8.16/10, First Class with Distinction.
- Studied core subjects of Chemical Engineering such as Heat Transfer, Mass Transfer, Reaction Engineering, Thermodynamics, Transport Phenomena, Process Control and Equipment Design. Completed 6 Semesters.

Sri Chaitanya Techno Schools, Bangalore, India *2013 – 2017*

- 12th Grade(CBSE): 94.4%
- 10th Grade(CBSE): 10.0/10.0

Professional Experience

Intern, *Aug. 2021 – Present*

Advanced Manufacturing Technology Development Center – Indian Institute of Technology, Madras

- Selected to work on a project under the "kite" initiative, a platform launched by AMTDC – IIT Madras.
- Currently designing a system for the automation of visual inspection of quality in a manufacturing process.

Intern, *Aug. 2021 – Sept. 2021*

Indian Institute of Technology, Kanpur

- Took up a Supply Chain Project, under the supervision of Dr. Subhas C. Misra.
- Devised a heuristic algorithm for optimizing material flow in a multi – echelon, multi – mode, multi – product Supply Chain Network. This involved optimizing the distribution costs and the vehicle transportation costs over the network.

Project Intern, *Jul. 2021 – Aug. 2021*

Indian Institute of Chemical Engineers

- Underwent training by industry experts in the Six Sigma methodology by analyzing a multitude of real – life case studies.
- Identified a working strategy to implement the Six Sigma methodology in improving a wastewater treatment process.

Data Science and Machine Learning Intern, *Jul. 2021 – Aug. 2021*

The Intern Academy

- Selected in the 50°C Summer Internship Program as Data Science and Machine Learning Intern.
- Created a Machine Learning model to recognize the Handwriting of a person and convert it to text using a Support Vector Machine classifier.
- Also worked on analyzing biomedical voice measurements and creating a model from a Parkinson's Disease Dataset to identify symptoms of Parkinson's Disease using Logistic Regression.

Associate, *Apr. 2021 – Present*

- Actively conducted literature reviews on the areas of electrochemistry involving Deep Eutectic Solvents and their applications to the processes of electrodeposition and electropolishing.
- Worked along with Dr. Prince Kumar Baranwal on co – authoring a manuscript on the same topic, currently under scrutiny for publication.

Intern, *Jun. 2019 – Jul. 2019*

Verzeo Edutech (AEP Microsoft)

- Successfully implemented a Machine Learning project for determining the topic of an article using Latent Semantic Analysis in Python.

Skills

Languages – Python, SQL, R, MATLAB, JAVA, C++.
Software – Aspen Plus, Android Studio, Git and GitHub, Excel, MS Office, PowerBI, Tableau, Minitab, Gurobi Optimizer, Photoshop.
Tools – Lean Six Sigma, Machine Learning and AI, Data Science and Data Analysis, Operations Research, Supply Chain Management.

Professional Development

Six Sigma: Green Belt Specialization by University System of Georgia	*Jul. 2021*
Industrial IoT on Google Cloud Platform	*Jul. 2021*
Applied Data Science with Python Specialization by University of Michigan	*Jul. 2021*
Google Data Analytics Professional Certificate by Google on Coursera	*Jun. 2021*
Operations Research: Models and Applications, Algorithms by National Taiwan University	*Jun. 2021*
Supply Chain Management Specialization by Rutgers the State University, New Jersey	*May 2021*
Deep Learning Specialization by DeepLearning.AI	*Aug. 2020*
Introduction to Programming with MATLAB	*Jul. 2020*
8 badges of recognition on Google Cloud Platform	*Oct. 2019*
Machine Learning with Python	*Jun. 2019*

Projects

- Optimizing material flow in a multi – echelon, multi – mode, multi – product Supply Chain Network.
- Deep Eutectic Solvents, Preparation Methods, and Applications – A Minor Research Project.
- Study of pollutants and the mean temperature and their effect on fog formation.
- Chemical Virtual Laboratory.
- COVID – 19 Data Analysis using Python.
- Supply Chain Management Strategy for Medical Technologies Corporation.
- Other Projects
  - Created an app inspired by the show Silicon Valley, named SeeFood, using Flutter and passing images through a neural network to identify different kinds of food.
  - Worked on a project which involved analyzing the damage caused by Hurricane Harvey a category 4 hurricane that made landfall in the U.S. in 2017, and proposed a solution for the disaster relief process.
  - Developed a website named FMAIL that can send emails and chat messages using PHP and HTML.
  - Worked on an application for DSC – NIT Andhra, to send event reminders using Google Firebase and Flutter.

Extra – Curricular Activities and Awards

- Chief Editor and Design Lead at ABSORB, The ChE Magazine – NIT AP *Aug. 2020 – Present*
- Core Technical Team Member at Developer Student Club (Google Developers) *Sept. 2018 – Sept. 2020*
- Joint Secretary at Chemical Engineering Association, NIT – Andhra Pradesh. *Sept. 2019 – Present*
- Joint Secretary at Entrepreneurship and Innovation Cell, NIT – Andhra Pradesh. *Oct. 2019 – Aug. 2020*
- Operations Team Co – ordinator at Task Force, NIT – Andhra Pradesh. *Oct. 2019 – Present*
- Volunteer, Swachh Bharat Mission. *Jan. 2020 – Feb. 2020*
- Recognized as a Microsoft Technology Associate in Programming with Python. *Jan. 2020*
- Participated in Codathon, an Inter NIT Coding Contest organized by ISTE Student's Chapter MANIT, hosted at HackerEarth. *Jan. 2019*
- Regional Topper, Informatics Practices – CBSE 2017 12th grade examinations awarded by TVS Motor Limited. *Aug. 2017*
- International Science and Mathematics Olympiad winner, organized by Science Olympiad Foundation, also becoming a school level topper with Gold and Bronze Medals respectively. *2013*