Mohammad Hamza

B.Tech Industrial Chemistry

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Degree	University/Institute	Year	CGPA/Marks(%)
B.Tech Industrial Chemistry & B.Tech Computer Science and Engineering (Second Major)	IIT Hyderabad	2025	8.90
XII (Karnataka State Board)	HKBK College of Engineering, Bangalore	2021	99.50%
X (CBSE)	International Indian School, Jeddah	2018	90.40%

SCHOLASTIC ACHIEVEMENTS

- **Academic Excellence Awardee-2023** (Highest CGPA in branch) at IITH
- Secured **AIR 7258** in **JEE ADVANCED 2021** among 1.5 lakh+ students
- Secured **AIR 13899** in **JEE MAIN 2021** among 9 lakh+ students
- **Top GPA** in Class 12th Board Exam (Marks Obtained :- **597/600**)
- **Invited by Japan Science and Technology Agency (JST) to Sakura Science Program (SSP):** Visited various Japanese Universities: U-Tokyo, Keio University, and NIMS.

EXPERIENCE

Siemens Technology and Services Pvt. Ltd. || Bangalore || Graduate Engineer Trainee — July 2025 - Current

Project:

- Currently undergoing Knowledge Transfer (KT) on **Siemens PCS 7** legacy product.
- Learning and analyzing existing **C++ codebase**, architecture, and workflows.
- Exposure to **maintenance, debugging, and enhancement** of legacy C++ modules.
- Understanding industrial control system workflows and software lifecycle practices.

Skills:

- Familiar Tools – Microsoft Visual Studio
- Cloud Platforms - Microsoft Azure

iCIMS India Pvt. Ltd. || Hyderabad || Software Engineering Intern — May 2024 - July 2024

Project:

- Migrated a repository from V1 to V2 Pipeline, enhancing performance and deployment efficiency.
- Optimized code by upgrading from Node version 12 to 18 and resolving dependencies.
- *AWS Integration*: Learnt about AWS resources like Lambda, SQS queues, and IAM roles. Transformed CloudFormation templates into SAM-based templates for improved deployment.
- Managed code repositories using Git, performing regular commits, merges, and repository updates on Bitbucket.

Skills:

- Familiar Tools - Jenkins, Bitbucket, Jira, Git
- Cloud Platforms - AWS (Lambda, SQS Queue, CloudFormation)

SKILLS

- Proficient Programming Languages:
  - C++ : STL, OOPS
  - Python: NumPy, Pandas, Matplotlib, SciPy, TensorFlow, Keras, Scikit-learn, Seaborn
- Familiar Tool:- MATLAB
- **Web Development Tools:-** HTML, CSS
- **Coding Environments:-** Microsoft Visual Studio Code, Jupyter Notebook
- **Microsoft Office Tools:-** Microsoft Word, Microsoft Excel, Microsoft PowerPoint
- Proficient knowledge of **D**ata **S**tructures and **A**lgorithms
- Proficient knowledge of **OS** and **DBMS**
- Competed in various Competitive Programming websites Problem-Solving, Critical Thinking

PROJECTS

- **Transformer Model for Protein-DNA/RNA Binding Affinity Prediction:-**
  - Applied pre-trained transformer models to predict binding affinity between Protein and DNA/RNA sequences.
  - Utilized RDKit for cheminformatics tasks, including SMILES conversion and molecular fingerprint generation for machine learning input.
  - Used CNN for sequence feature extraction and Dense Layers for Ka prediction.
  - Conducted accuracy and R^2 evaluations, identifying areas for architectural improvements and model optimization.
- **Project on Object-Oriented Programming:-**
  - Created a directory of doctors and patients in IITH Hospital.
  - The data of doctors and patients can be accessed and searched through any data of the person.
  - The directory stores a history of appointments of the patients and the doctors.
  - The directory also has a feedback system that allows the doctors and the patients to give ratings to each other.

RELEVANT COURSES

CS Courses: Data Structures, Algorithms, Computer Architecture, OS, DBMS, Theory of Computation, Compilers-I
Mathematics Courses: Discrete Mathematics, Probability, Calculus, Linear Algebra, Differential Equations

Machine Learning Specialization: — DeepLearning.AI and Stanford University || Coursera

- Supervised Machine Learning: Regression and Classification
- Advanced Learning Algorithms
- Unsupervised Learning, Recommenders, Reinforcement Learning