PRINCE CHAUHAN

Roll No.:214102022
M.Tech - Communication Engineering
Departemnt of EEE
Indian Institute Of Technology, Guwahati

+91-8582898467
prince.chauhan@iitg.ac.in
princechauhan6197@gmail.com
Github
Linkedin

Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
M.Tech	Indian Institute of Technology, Guwahati	7.0	2021-Present
B.Tech	Heritage Institute of Technology, Kolkata	7.18	2015-2019
Senior Secondary	CBSE Board	73.2%	2014
Secondary	CBSE Board	9.2	2012

Work Experience

- **TATA CONSULTANCY SERVICES** *Sep 2019 - Oct 2021*
  System Engineer (2.1 Years) Pune
  – > **Machine Learning Engineer (Client : Citi Bank, Texas , USA)**
    * I worked with the **Chatbot team**, where I collected and cleaned data including Chat logs, Customer support tickets, which was required to train the chatbot.
    * I developed **NLP Models** to understand and analyze user inputs and intents, as well as to generate responses in a natural and coherent manner. Additionally, I developed **Machine Learning Models** for tasks like Entity recognition, Sentiment analysis, and Text classification to enhance the Chatbot's functionality
  – > **Database Developer (Client : Westpac & Bank of Melbourne)**
  SQL Developement & maintenance in Sybase Database using Stored Procedures, functions ,views ,DDL ,DML etc.
  Superannuation fund monitoring (amount ,beneficiary detail, receipt data
  Job monitoring and troubleshooting in case of any issues .
- **Teaching Assistant (TA)** for Digital Communication Lab (EE-221) , **IIT Guwahati**

Projects

- **Vehicle Assisted Multi- Access Edge Computing** *Ongoing*
  M.Tech Thesis Project
    * Offloaded Highly intense and low latency task generated by Mobile Device to MEC Server
    * Vehicle (as a vehicular Node) assist MEC Server to expand their Computation resources so that MEC Server will be able to compute all the task generated by nearby Mobile (IOT) Devices.
    * Calculated latency of the process and then tried to **minimize** latency w.r.t to Connection Matrix (whether a mobile device task has been assgined to a server / Node or not) . Then I mapped latency into a QOE based Utility function ; and found that my model better than other existing model (model with MEC only)
- **Zero Forcing MIMO Receiver | MATLAB** *Sept. 2022*
  Self Project
  – Designed the Zero forcing MIMO receiver and also plot BER of MIMO Channel with respect to SNR
- **OFDM System Design | PYTHON** *Jul. 2022*
  Self Project
  – Designed the OFDM Transmitter and Receiver ; and also analyzed the BER for OFDM channel with respect to SNR(db)
- **MIMO Optimization | MATLAB** *Sept. 2022*
  Self Project
  – Optimized the MIMO System using Singular Value Decomposition ; and analyzed the performance of Capacity of MIMO with respect to SNR(dB)

Technical Skills

- **Programming**: C / C++ , Python , Data Structure & Algorithm , Matlab*
- **Tools/Frameworks**: LabAlive, Latex ,VS Code

** Elementary proficiency*

Key courses taken

- Wireless Communication
- Information Theory
- Linear Algebra & Optimization
- Probability & Stocastics Processes
- Digital Communication
- Massive MIMO for 5G
- Signals & System
- Detection & Estimation Theory

Extra Curricular & Achievements

- **Dance** ,Runner up in **Eclesia** $InterCollegeCututral fest$

  * **Gate 2019**,Secured **99**+ Percentile among 1 lakh Candidates for the test