

# Tushar Khandelwal

[LinkedIn](#) [Github](#)

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## EDUCATION

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- **Guru Gobind Singh Indraprastha University, East Campus** New Delhi  
*Bachelor of Technology, ECE(Internet Of Things) CGPA: 9.04* September 2021 - May 2025
- **Sumermal Jain Public School** New Delhi  
*12th Central Board of Secondary Education 93.4%* May 2020 - April 2021

## EXPERIENCE

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- **Headstarter AI** Remote  
*SWE Fellowship - Part time* July 2024 - Present
  - Attending workshops, mentorship sessions, and networking events to enhance technical skills and professional growth.
  - Developing real-world projects like a **pantry tracker** and **AI customer support** applications.
- **Sparc Nano Fabrication Semiconductor Program, IIT Hyderabad** Hydreabad  
*Participant* June 2024 - Jul 2024
  - Gained expertise in semiconductor manufacturing, including nanomaterial synthesis, thin film deposition, and chip fabrication. Applied CAD tools for design tasks and focused on crystal orientation, process optimization, and device characterization.
  - Selected from a competitive pool of over **600 applicants** nationwide, demonstrating exceptional skills and understanding in cleanroom operations and semiconductor technology fundamentals.
- **Guru Gobind Singh Indraprastha University, East Campus** New Delhi  
*AIML - Intern* September 2023 - October 2023
  - Worked under my college professor as AIML intern and developed a predictive model for stock price forecasting using LSTM neural networks, achieving an **RMSE** of **6.55**.
  - Utilized historical stock data from **Yahoo Finance** for robust training and testing. Created insightful visualizations, including time-series plots and prediction vs. actual performance graphs, to demonstrate the model's effectiveness.

## PROJECTS

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- **Emotion Detection Using CNN and FER-2013 Dataset** [Github](#)  
*Python, TensorFlow, Keras, VGG16*
  - Developed emotion detection with CNN on the FER-2013 dataset, enhancing model performance and accuracy to **56%** using **VGG16** and addressing class imbalance through augmentation and class weights.
- **E-Commerce Backend** [Github](#)  
*Node.js, Express.js, MongoDB, Mongoose, bcrypt.js, JWT, Postman*
  - Developed a secure e-commerce backend with Node.js and Express.js, implementing RESTful APIs, token-based authentication, and password security.

## TECHNICAL SKILLS

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- **Programming Languages:** C, C++, Python
- **Web Development:** JavaScript, ReactJs, NextJs, NodeJs, MongoDB, SQL
- **CS Fundamentals:** Data Structures, Algorithms, DBMS, Operating System, OOPs, RDBMS
- **AI/ML:** Tensorflow, Pytorch, Natural Language Processing, Vision models, Keras

## TEACHING/LEADERSHIP EXPERIENCE

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- Organized and led a successful hackathon at the Azintek event with **300 participants**, and delivered an **IoT speaker session**, demonstrating strong leadership and communication skills.
- Part of the core team, **Intel One API Student Club** (2023-2024).