

TUSHAR SWARNKAR

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EDUCATION

B.Tech, Computer Science and Engineering
Bennett University, Greater Noida, India
CGPA: 7.9

Sept 2022 – (Expected) Jun 2026

TECHNICAL SKILLS

Languages: C++, Python, Dart, JavaScript
Frontend: HTML, CSS, React.js, Tailwind CSS, Flutter, Streamlit, Power BI
Backend & Databases: Node.js, Firebase, MongoDB, MySQL, REST APIs, FastAPI
Machine Learning & Deep Learning: Scikit-learn, pandas, NumPy, TensorFlow, Keras, CNNs, LSTMs, Transformers, Generative AI (LLMs, LangChain, RAG Systems), OpenCV
Design Tools: Illustrator, Photoshop, XD, Figma, Blender, Lightroom, Canva
Relevant Coursework: Data Structures and Algorithms, DBMS, Deep learning, Data Analytics, Generative AI
Soft Skills: Effective Communication, Collaboration, Public Speaking, Problem Solving, Time Optimization

EXPERIENCE

NASSCOM & SmartBridge Jun 2025 – Jul 2025
Virtual Intern – Generative AI Remote

- Hands-on virtual internship in **Generative AI** using Google Cloud Vertex AI, Docker, and CI/CD workflows.
- Worked with **Google Cloud AI APIs** and completed industry-level labs via SkillBoost.
- Gained practical exposure to **prompt engineering, image synthesis, and text generation**.

PROJECTS

SafeCast – AI Surveillance System (YOLOv11, OpenCV, Flask, React.js, Firebase, Mailtrap, Socket.IO) Apr 2025

- AI surveillance system with **92%+ accuracy** in real-time weapon and panic detection using YOLOv11.
- Built a scalable backend with Flask & Socket.IO handling 100+ concurrent video streams.

AgriTech – AI Crop Prediction Platform (React, CNN, TensorFlow, Scikit-learn, Keras) Mar 2024

- Developed AI-powered platform for crop prediction, yield estimation, and disease detection.
- Achieved **87% accuracy** in disease classification using CNN models.

Mindly – AI Mental Health Assistant (DistilRoBERTa, LLM, GPT-2, Transformer, Flask, React.js) Nov 2024

- Designed an AI mental health assistant with 88% accurate emotion detection.
- Integrated GPT-2 with emotion-aware NLP pipelines for personalized chatbot support.

Agentic Workflow – LangGraph Task Executor (LangGraph, Hugging Face, Colab) Jun 2025

- Built an agentic **planner-reflector-executor loop** using LangGraph and Hugging Face Transformers to decompose queries, solve them iteratively, and reflect on results.
- Deployed fully in **Google Colab** with a local LLM pipeline; enabled structured and explainable execution in a modular, open-source workflow.

RESEARCH

Mindly – AI Mental Health Assistant Oct 2024 – Nov 2024

- Demo paper on an NLP-driven, emotion-aware chatbot for personalized mental health support.

VOLUNTEERING EXPERIENCE

Design Head – IEEE Student Chapter BU 2023 – 2024
Management Member – Alan Turing Club (ATC), BU 2022 – 2023

CERTIFICATIONS

Tata's GenAI Powered Data Analytics on Forage | Deep Learning for Developers | Google Data Analytics Professional Certificate

ACHIEVEMENTS

- Solved 150+ problems on **LeetCode**.
- Ranked Top 3% (14th / 1800+ teams) at TechSprint Hackathon 2025 (Graphic Era University).