**Bhavuk Agrawal**

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**Education**

* **Bennett University, Greater Noida, Uttar Pradesh, India – 201310**  
  Bachelor of Technology (B.Tech) in Computer Science | CGPA: 9.0/10 | Expected Graduation: 2027
* **Amarnath Vidya Ashram Senior Secondary School, Mathura, Uttar Pradesh, India – 281004**  
  Class XII (CBSE) | Percentage: 90% | Graduated: 2023

**Work Experience**

**Machine Learning Intern**  
**National University of Singapore (NUS)** | **Singapore, Singapore (On-Site)** | **June 2024 – July 2024**

* Gained hands-on training in AI/ML, NLP, and cloud technologies under the guidance of NUS faculty and researchers.
* Implemented a **Medical Report Analysis Tool** using TF-IDF for efficient medical text processing as part of guided research.
* Learned and applied **AWS CloudFormation** to automate infrastructure setup for scalable deployments.
* Deployed machine learning models using **AWS SageMaker** and optimized workflows with AWS tools.
* Collaborated with peers and mentors to translate academic concepts into working prototypes.

**Projects**

**AI-Powered Real-Time Video Conferencing (2025)-**

* Built a platform with **real-time multilingual subtitles (Whisper)**, **auto-summarization (BART)**, and a **RAG chatbot (LLaMA + LangChain)** on **AWS + WebRTC**; optimized latency by ~40%.
* **GitHub Repo:** [github.com/bhavuk1409/intellimeet\_updated](https://github.com/bhavuk1409/intellimeet_updated)

**Radiology Report Analysis with Integrated Chatbot (2025)-**

* Automated **radiology report parsing** and integrated a **LLaMA + LangChain chatbot** for clinician Q&A; deployed on **Streamlit** for secure real-time use.**GitHub**
* **Repo:** [github.com/bhavuk1409/my-ai-radiologist](https://github.com/bhavuk1409/my-ai-radiologist)
* **Live Demo:** [radimate.streamlit.app](https://radimate.streamlit.app/" \t "_new)

**Speech-to-ASL (American Sign Language) Translator (2024)-**

* Converted **Gujarati speech into ASL video** using **Azure Speech/Translate, Stanza NLP, MoviePy** with a **Gradio UI** for real-time translation.
* **GitHub Repo:** [github.com/bhavuk1409/Speech\_to\_ASL](https://github.com/bhavuk1409/Speech_to_ASL)

**Football Game Analysis (2024)-**

* Developed a **YOLOv8-based CV system** to track players/ball, compute **speeds, possession, coverage maps**, and deliver near real-time analytics.
* **GitHub Repo:** [github.com/bhavuk1409/Object-Detection-Using-Yolo](https://github.com/bhavuk1409/Object-Detection-Using-Yolo)

**Technical Skills**

* **Programming Languages:** C++, Python, Java, JavaScript
* **Machine Learning & AI:** Computer Vision, LLMs, Generative AI, LangChain, Langraph, Langsmith, Vector DBs, RAG, TensorFlow, PyTorch, NLP
* **Web Development & Backend:** FastAPI, MongoDB, AWS, SQL, React
* **Problem Solving Skills:** Data Structure & Algorithms, Competitive Programming

**Academic and Extracurricular Achievements**

* Maintained **CGPA: 9.0/10** in B.Tech (CSE), Bennett University.
* Selected for **on-site academic internship at NUS (Singapore)**, working on AI/ML and cloud-based deployments.
* **Certifications**:
  + **Improving Deep Neural Networks: Hyperparameter Tuning, Regularization & Optimization*–*DeepLearning.AI**
  + **Data Structures*–* UC San Diego**
* Participated in multiple hackathons and coding competitions, building AI-driven solutions under time constraints.
* Regularly practice **DSA and competitive programming** on platforms like LeetCode.
* Strengthened problem-solving by tackling diverse **algorithmic challenges** across multiple domains.