# HEEYA AMIN

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## EDUCATION

**Indiana University**, Bloomington, IN — Aug 2024 - May 2026
Masters in Data Science — GPA: 3.5/4

**Gujarat Technological University**, Gujarat, India — June 2020 - June 2024
Bachelors in Computer Engineering — GPA: 8.5/10

## SKILLS SUMMARY

**Programming:** Python, Java, C++, R, Kotlin, JavaScript, SQL, Django
**Data Science & ML:** Scikit-learn, PyTorch, TensorFlow, Keras, OpenCV, NLP, LangChain, Mathematics
**Databases:** MySQL, PostgreSQL, MongoDB, Firebase
**Tools:** GCP, Hadoop, Spark, Tableau, Power BI, Docker, Git
**Web & App Development:** HTML, CSS, ReactJS, NodeJS, Express, Android Studio

## INTERNSHIP EXPERIENCE

**Intuz Software Company** — India
*AI/ML Intern* — *Jan 2024 - June 2024*
- Designed a multimodal blog generation platform using LangChain, reducing content creation time by 40%.
- Designed agentic AI chatbots for customer service and virtual assistance using Rasa and NLP pipelines.
- Enhanced automation through generative LLM-based assistants, reducing response time by 30%.

**Intuz Software Company** — India
*AI/ML Intern* — *Apr 2023 - Sept 2023*
- Built a multilingual document accessibility system (PDF-to-Text + TTS) across 5+ languages using NLP.
- Engineered a food classification pipeline using AI image recognition, achieving 92% accuracy.

**Laurentian University** — Canada
*Summer Intern* — *July 2023 - Aug 2023*
- Conducted applied research on secure multimodal communication through video-based steganography.
- Compared performance of various steganographic techniques for data security optimization.

**Oasis Infobyte** — India
*Data Science Intern* — *Feb 2023 - Mar 2023*
- Built dashboards with Tableau and Power BI to translate complex data into insights, improving decision-making by 25%.
- Created predictive models for spam detection and car price estimation, achieving up to 94% accuracy.
- Developed interactive dashboards for projects such as unemployment rate analysis post-COVID-19, increasing stakeholder engagement by 40%.

## RELEVANT PROJECTS

**ML Based Cloud Resource Optimization** *(Machine Learning, Cloud Computing)* — Dec 2024
- Optimized cloud resource allocation by developing an ML-driven scheduling system
- Leveraged TensorFlow, Google Cloud Platform (GCP), ReactJS to optimize ML-driven scheduling.
- Reduced resource waste by 20% and cutting cloud costs by 18%.

**E-commerce Customer Service Chatbot** *(Machine Learning, Artificial Intelligence)* — May 2024
- Initiated the design and deployment of a customer service chatbot
- Improved user satisfaction scores by 15% within the first quarter of implementation, demonstrating immediate positive feedback from the user base.
- Implemented TensorFlow, Rasa, NLP, OpenAI API for chatbot

**AI Powered Blog Generator & Editor** *(Machine Learning, Artificial Intelligence)* — Jan 2024
- Built an AI-powered blog generation tool using LangChain & OpenAI, which reduced creation time by 40%
- Applied LangChain, OpenAI API and Flask to create cross-functional platform.
- Optimized query processing by 96% using vectorized SQL queries, improving content automation accuracy.

**Skin Lesion Analysis using CNN** *(Neural Networks, Image Processing)* — June 2023
- Innovated a real-time skin lesion detection model, by reducing diagnosis time by 35%.
- Integrated TensorFlow, OpenCV and TensorFlow.js.
- Achieved 92% classification accuracy, reducing diagnosis time, and enabling instant client-side analysis.

**Chatbot for Academic Institutions** *(Machine Learning, NLP)* — Dec 2022
- Developed an AI-driven chatbot with 47 intents and 21 root responses to streamline university-related inquiries, enabling students and faculty to access information instantly.
- Deployed TensorFlow, Flask, NLP to create an AI chatbot for academic institutions.
- Achieved 87% accuracy in intent classification, reducing student inquiry resolution time by 50%

## RESEARCH WORK

**Explainable AI in Healthcare** *Published in Springer, Dec 2023* (Link ↗)
**Chatbot for Academic Institutions** *Published in Springer, Dec 2023* (Link ↗)