

# Abhishek Amgain

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## Summary

AI/ML student with 3+ years of experience in research and product development, specializing in building production grade AI solutions. Skilled in leading initiatives and collaborating across teams to deliver solutions.

## Education

### University of Louisiana Monroe

Monroe, LA

B.S. Computer Science & Mathematics (Honors) — **GPA: 4.0/4.0**

Aug 2022 – Jun 2026

**Courses:** Data Structures, Algorithms, OS, Database, Soft. Engineering, Networking, Calculus, Statistics, Algebra, AI, ML

## Experience

### Software Developer

Sep 2023 – Present

IBM LED

Monroe, LA

- Developed **12+ scalable web applications** for Northeast Louisiana SMB clients utilizing **React.js**, **Node.js**, and **Python** on **AWS cloud infrastructure**, achieving **40% operational efficiency** gains through process automation.
- Developed **LLM-powered workflow automation** (GPT-3.5/4) that improved customer service response accuracy by **35%** and increased engagement by **30%**, saving **15+ hours/week** in manual work.
- Created **50+ strategic reports** with **Tableau/PowerBI** visualizing AI model performance (**92% accuracy**), delivering actionable insights to **key stakeholders**.

### Data Analyst Intern

May 2023 – Aug 2023

Qatar Airways

Dulles, VA

- Developed predictive data models (**Python**, **SQL**) analyzing flight operations and crew scheduling, achieving **15% efficiency gains** through optimized turnaround times and resource allocation.
- Designed **15+ interactive Power BI dashboards** tracking KPIs (on-time performance, baggage handling, fuel efficiency), adopted by **3 departments** for real-time decision making.
- Conducted exploratory data analysis (**Pandas**, **Seaborn**, **AWS Sagemaker**) on **50k+ passenger records**, identifying booking trends that informed revenue management strategies yielding **10% cost optimization**.

### Student Tutor

Aug 2022 – May 2023

U.S. Department of Education - TRIO Program

Monroe, LA

- Provided personalized tutoring to **25+ first-generation college students** in STEM, leading to **35% grade improvement**; conducted **5+ coding workshops** for **200+ students** at local high schools.
- Developed tailored practice materials for Mathematics and Computer Science, improving student learning and engagement.

## Technical Skills

**AI/Machine Learning:** TensorFlow, PyTorch, Pandas, Numpy, LangChain, OpenCV, NLP, Scipy, Databricks

**Web/Software Development:** Next.js, React.js, Node.js, Express.js, Tailwind CSS, REST API

**Cloud/DevOps:** AWS (EC2, S3, Lambda), Docker, GitHub Actions, Vercel, Linux, CI/CD

**Databases:** MySQL, MongoDB, PostgreSQL, Firebase

**Tools/Other:** Git, VS Code, Figma, LaTeX, Postman, Jupyter Notebook

## Projects

### Placeaway – [Link](#)

Oct 2024 – Mar 2025

Built an AI-powered platform for customizable vacation planning using **Next.js 14** for performance, **TypeScript** for type safety, and **PostgreSQL** for scalable data management. Integrated **OpenAI GPT-4** for dynamic suggestions, with a responsive UI built using **Tailwind CSS** and **ShadCN/UI**.

### Google Stock Price Pattern Prediction – [Link](#)

Dec 2023 – Apr 2024

Developed an **LSTM** and **RNN-based model** for predicting Google stock prices using time-series data, achieving **79% accuracy**. Leveraged **Python**, **TensorFlow/Keras**, and deep learning techniques for optimized trend detection and financial forecasting.

## Leadership & Activities

- **Google Developer Student Club ULM**, Vice-President Aug 2024 – Present
- **Louisiana Academy of Sciences Conference**, Best Undergraduate Oral Presentation Mar 2025
- **University of Louisiana Monroe**, Presidential Scholar Award Aug 2022 – Present
- **Association for Computing Machinery (ACM)**, Active Member Aug 2022 – Present