

Agampreet Bajaj

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EDUCATION

University of North Carolina at Charlotte

Bachelor of Science in Computer Science - Division in Data Science, Minor in Mathematics

Charlotte, NC

Summer 2026

SKILLS

Languages: Python, SQL, Java, HTML/CSS, JavaScript

Frameworks/Libraries: Pandas, Numpy, Scikit-Learn, LangChain, Seaborn, Matplotlib, SpaCy, FastAI, Node.js, React

Tools/Platforms: ChromaDB, Agile Methodologies

EXPERIENCE

BASF

Data Science/Market Intelligence Analyst Intern

May 2025 - August 2025

Florham Park, NJ

- Designed and developed a generative AI Copilot Agent for the Pharmaceutical Sales and Marketing division, enabling natural language queries over different Pharmaceutical company databases.
- Reduced manual database queries by integrating real-time chatbot access to PharmaCircle, EvaluatePharma, and IQVIA databases using RAG architecture.
- Enhanced cross-team collaboration by conducting 5+ knowledge-sharing sessions on machine learning processes, reaching 5+ Managers across Sales and Marketing divisions

Break Through Tech Fellowship w/ Verizon

Data Science Program Fellow

June 2025 – Present

Remote

- Mastered 15+ ML concepts by completing an intensive curriculum covering neural networks, model deployment, and data preprocessing using Python and multiple libraries.
- Collaborating with Verizon to develop a computer vision pipeline to detect birds on cellular towers, supporting efforts in avian wildlife protection and regulation compliance.
- Applying skills in object detection, image classification, and ethical AI deployment to address real-world infrastructure challenges.

College of Computing and Informatics

Instructional Assistant

August 2024 – August 2025

Charlotte, NC

- Improved student performance by leading weekly lab sessions for 40+ students in Data Structures and Algorithms using Java.
- Enhanced learning outcomes by providing one-on-one support covering complex topics, including trees, graphs, and algorithm analysis.

PROJECTS

Personality Classification (Lead Developer) | Python, Pandas, SK-learn, Matplotlib, Seaborn

July 2025

- Achieved 91% accuracy by designing a classification pipeline using GridSearch optimization for Decision Trees and Logistic Regression models on 3,000+ personality trait records.
- Improved data quality through comprehensive preprocessing, including null handling, one-hot encoding, and feature validation using Pandas.
- Validated model reliability by implementing out-of-sample evaluation, achieving 0.89 AUC score through confusion matrix analysis and ROC curves using Scikit-Learn.

Cerebra: Discord Chatbot (Lead Developer) | Python, LangChain, ChromaDB, Agile

Oct 2024 – Nov 2024

- Delivered 3x faster document retrieval by developing RAG-powered chatbot serving 150+ Discord users using LangChain and ChromaDB.
- Enhanced data privacy through custom regex patterns with SpaCy, successfully identifying and redacting PII from confidential documents.