

# KUSH CHAUDHARY

Ames, Iowa

📞 620-704-1295    ✉️ [chaudhar.kush2@gmail.com](mailto:chaudhar.kush2@gmail.com)    🔗 [linkedin.com/in/kush-chaudhary2023](https://www.linkedin.com/in/kush-chaudhary2023)

## Education

**Iowa State University** **Aug. 2024 – May 2026**  
*Master of Science in Artificial Intelligence* *Ames, IA*

- **Relevant Coursework:** Advanced Machine Learning, Natural Language Processing, Principles of AI

**Pittsburg State University** **Graduated Dec. 2023**  
*Bachelor of Business Administration in Programming/Business Analytics (GPA: 3.5)* *Pittsburg, KS*

## Experience

**Telligen** **May 2025 – Aug. 2025**  
*Software Engineer Intern*

- Engineered a proof-of-concept AI feature for the Qualitrac healthcare suite to automate data extraction from PDF assessments.
- Developed a Java-based backend service that orchestrated an OCR-to-LLM data pipeline for efficient text processing.
- Utilized Tesseract for OCR and a proprietary LLM to parse unstructured text, converting it into validated, structured JSON.
- Presented the PoC to stakeholders, demonstrating a potential 80% reduction in manual data entry time for key forms.

**SelectQuote** **Jan. 2023 – May 2025**  
*Database Developer Intern* *Overland Park, KS*

- Designed and implemented scalable SQL database architecture to support new agent-facing applications.
- Authored and optimized complex T-SQL stored procedures and queries.
- Wrote and maintained a suite of unit tests using Jest for JavaScript components, ensuring code reliability and preventing regressions.

## Projects

**AI-Powered Document Digitization (Internship Project)** | *Java, OCR, Tesseract, LLMs* **Summer 2025**  

- Engineered a Java workflow integrating OCR for text extraction from unstructured PDF healthcare assessments.
- Leveraged a proprietary LLM to intelligently parse extracted text and convert it into a structured JSON format for database ingestion.

**Automated Short Answer Grading using NLP** | *Python, DistilBERT, TF-IDF, Gemini* **Spring 2025**  

- Developed and compared three NLP models (Rule-Based, fine-tuned DistilBERT, and LLM) to automate the classification of short-answer exam responses into 'Correct', 'Incorrect', and 'Imprecise' categories.
- Fine-tuned a DistilBERT model on a dataset with significant class imbalance, achieving 88.4% test accuracy and demonstrating superior semantic understanding over traditional methods.
- Implemented a TF-IDF and cosine similarity baseline model to contrast its performance against the transformer-based and LLM (Google Gemini) approaches.
- Performed a comprehensive analysis of the models based on F1-scores, accuracy, complexity, and interpretability.

## Technical Skills

**Languages:** Python, Java, C#, JavaScript, SQL, T-SQL  
**Developer Tools:** Git, Jira, Bitbucket, Confluence, VS Code, PyCharm  
**AI/ML Frameworks:** PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib, BERT, VEO3, ElevenLabs  
**Technologies:** Agile/Scrum (SFPC Certified), OCR, LLMs, REST APIs