Avani Brahmbhatt

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EXPERIENCE

PETPOOJA | Data Science Intern
September 2024 – Present | Ahmedabad, Gujarat
- Wrote 1500+ creative and structured prompts for training/testing image generation models; prepared JSON datasets for LLM-based prompt pipelines.
- Performed image-task validation of 3500+ images, ensuring generated task names and questions aligned with visual content. Validated predicted image angles for accurate segregation; flagged inconsistencies and edge cases.
- Built QA datasets for internal model testing; identified bugs and suggested improvements for model performance.
- Participated in team meetings on ongoing AI/ML developments, gaining insights into trends and best practices in the rapidly evolving data science landscape

SAHANA SYSTEMS LIMITED | AI/ML Intern
June 2024 – August 2024 | Ahmedabad, Gujarat
- Gained proficiency in Python and OpenCV, conducted thorough exploratory data analysis (EDA) to extract actionable insights and developed strong expertise in core data science libraries such as Pandas, NumPy, and Matplotlib.

PROJECTS

LEGALBOT WITH RAG | LLaMA 3.1-8B Instruct, RAG, FAISS, LangChain, Python
March 2025 - April 2025
- Built a Legal QA chatbot using Meta's LLaMA 3.1-8B-Instruct model with Retrieval-Augmented Generation, for queries related to Indian legal documents for domain-specific contextual responses.
- Created chatbot framework, integrated FAISS vector store and LangChain to enable semantic search and legal query handling over unstructured Indian law text corpus.

AUTOMATIC ESSAY GRADING SYSTEM | RoBERTa, Transformers, Python, Gradio, Pandas
February 2025 - March 2025
- Developed an AI-based essay scoring model using RoBERTa on a Kaggle dataset of 17,000 essays, incorporating synthetic data to handle class imbalance and improve generalization.
- Achieved a QWK score of 0.9441 and 75.52 percent validation accuracy; deployed a Gradio UI for instant feedback, highlighting strengths, errors, and improvement tips.

ACHIEVEMENTS

HACKATHON WINNING SMART KITCHEN MANAGEMENT SYSTEM
- Built a full-stack AI solution that leverages computer vision and generative AI, project won 1st place in a company-organized hackathon during internship.

SUMMARY

I am a Data Science Graduate with a strong foundation in Python, R and Gen AI. I have a proven record of developing innovative solutions. My work integrates advanced analytical skills with core industry frameworks, complemented by excellent problem-solving and communication abilities. I am passionate about leveraging technology to drive impactful results.

EDUCATION

GUJARAT UNIVERSITY
MSc. in Data Science
June 2024 - Present | Ahmedabad, Gujarat
Avg GPA: 9.1 / 10.0

GUJARAT UNIVERSITY
BSc. in Data Science
November 2021 - May 2024 | Ahmedabad, Gujarat
Avg GPA: 9.1 / 10.0

SHREYAS VIDYALAYA
10+2
June 2019 - April 2021 | Vadodara, Gujarat
HSC Score: 89

SKILLS

TECHNOLOGY
- Python | OOPs | R Programming
- SQL | MongoDB | PowerBI | Tableau
- Microsoft Office

LIBRARIES AND FRAMEWORK
- Pandas | NumPy | Scikit-learn
- LangChain | TensorFlow | PyTorch
- OpenCV | NLTK | SpaCy
- Streamlit | Flask | Gradio
- Matplotlib | Seaborn

SOFT SKILLS
- Communication | Problem-Solving
- Adaptability | Teamwork | Creativity
- Time Management | Critical Thinking

LINKS

Github:// **Avani-Brahmbhatt**
LinkedIn:// **avani-brahmbhatt08**
Medium:// **Avani Brahmbhatt**