PRIYANKA RANI

+1 (667) 345 4810 | email-aa51373@umbc.edu | linkedin.com/in/priyanka-rani-gangji-7a280a257

Graduate student in Management Information Systems with a strong foundation in SQL, Oracle, Python, and data analytics. Experienced in data transformation, reporting, and backend systems. Worked on real-world database projects, including hotel menu ordering and IoT systems. Familiar with enterprise systems, GIS data handling, and software development in Agile teams. Quick learner with strong analytical and problem-solving skills.

EDUCATION

University of Maryland, Baltimore County, *MS in Management Information Systems* | Maryland, USA
GPA: 3.9 / 4.0
May 2025

Godutai engineering College For Womens, *B.Tech in Electronics and Communication Engineering* |
Kalaburagi, India   GPA: 9.17 / 10
Aug 2021

RELEVANT COURSEWORKS

Data Mining | Database Systems | Machine Learning | Data Visualization | NLP | AI Ethics

EXPERIENCE

University of Maryland, Baltimore County, *Research Assistant* | USA   May 2024- Present
- Developed prompt-based interfaces and caselets from AI research papers for instructional use.
- Engineered AI features using Python integrating LLMs (OpenAI, Hugging Face) to automate content generation and personalization
- Crafted few-shot and zero-shot prompts to improve chatbot performance in an educational context.
- Deployed applications on AWS, ensuring scalability and security.

University of Maryland, Baltimore County, *Graduate Assistant* |USA   Feb 2024- May 2024
- Managed annotation pipelines and structured AI training datasets for LLM fine-tuning.
- Utilized Wispher technology for automated transcription and analysis.

GTTC, *Research Intern (Data & IoT Systems)* | (Kalaburagi, India)   Feb 2021 - March 2021
- Built IoT control systems using SCADA, PLC, and IIoT technologies for industrial automation use cases.
- Built real-time analytics dashboards to monitor system health and performance using sensor data.

SKILLS

Programming Languages	Python, Java, SQL, PLSQL, C, C++, Assembly
Prompt Engineering	Few-shot prompting, context management, temperature tuning, LLM fine-tuning
Tools and Platforms	Excel, Outlook, Tableau, MATLAB, AWS, Power BI, PyTorch, IT Infrastructure, Data Pipelines, Oracle
AI/ ML Frameworks	OpenAI API, Hugging Face Transformers, TensorFlow, PyTorch, CRF, SAQUET, WEKA
CRM and Communication	A Microsoft Office Suite, Collaborative Tools
Core Skills	Market Research, Data Analysis, Data Visualization, Cloud Solutions, Business Intelligence

PROJECTS

Hotel Menu Ordering System – Oracle, SQL   Apr 2025 – May 2025
- Built an interactive food ordering system simulating a restaurant POS.
- Developed backend using SQL and Oracle DB for managing orders, items, and billing.

Music Recommendation System – Streamlit, ML, Cosine Similarity   Apr 2025 – May 2025
- Developed a dynamic music recommendation app using Streamlit, showcasing real-time suggestions based on user preferences.
- Implemented both content-based filtering using cosine similarity and machine learning algorithms for personalized recommendations.
- Integrated explainable AI elements to describe how and why each song was recommended.

Named Entity Recognition (NER) *- Using Google Colab*   March 2024- May 2024
- Developed a custom NER model using Google Colab and Conditional Random Fields (CRF) for entity classification.
- Applied text preprocessing techniques and optimized model performance using transfer learning.

Scalable University Course Enrollment System *- Java, PostgreSQL*   Sept 2023 – Dec 2023
- Developed a backend system using Java and PostgreSQL to improve course registration efficiency.
- Integrated RESTful APIs for real-time course updates.

Generative AI-Powered Question Evaluation (Python, SAQUET)   Feb 2021 - May 2021
- Integrated the SAQUET toolkit to evaluate and improve question quality in AI-driven learning platforms.
- Implemented Transformer-based NLP models for question validation.