

# YASH BODAKA

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## PROFESSIONAL SUMMARY

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AI and Backend Engineer focused on building AI-powered solutions and intelligent workflows. Experienced in designing LLM-driven applications, RAG pipelines, and automation workflows. Skilled in translating AI models into production-ready services and analytics-driven systems deployed across cloud environments.

## EDUCATION

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**New LJ Institute of Engineering and Technology, Gujarat Technological University** Ahmedabad, India  
*Bachelor of Engineering in Computer Science and Engineering* Jul 2022 – Jul 2026

## EXPERIENCE

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**Motadata Pvt Ltd | AI Intern — Product Engineering** Jun 2025 – Nov 2025

- Assisted engineering teams in research, requirement analysis, and AI-driven feature development.
- Analyzed the Google A2A protocol for seamless integration into existing product architecture.
- Collaborated with backend and AI teams to prototype LLM-powered automation workflows for internal product use cases.

**The Research Nexus (AI Group) | Co-Founder & Lead — AI Systems & Research** May 2025 – Present

- Leading a 20+ member interdisciplinary team building AI-powered automation and backend systems.
- Designed reproducible ML pipelines using MLflow, Docker, and PostgreSQL.
- Authored peer-reviewed research on scalable ML systems, MLOps, and applied AI.

**Express Travels | Software Developer** Jun 2024 – Apr 2025

- Designed and optimized Python and SQL-based backend systems for analytics and real-time performance.
- Built automated ETL pipelines and forecasting models, improving operational efficiency.
- Developed orchestration and alerting workflows, reducing manual processes by nearly 60%.
- Integrated AI-driven modules into backend services for predictive analytics and automation.

## PROJECTS

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**Documentation Chatbot | LLM, Agentic Routing**

- LLM-based system using hierarchical, non-embedding retrieval with agent-based routing for accurate context.

**RAG Tool Selector | Dynamic RAG, Tool Use**

- Adaptive tool-selection pipeline enabling dynamic RAG across a large tool ecosystem.

**Graph RAG Implementation | Graph DB, Entity Modeling**

- Designed and implemented a graph-based RAG system leveraging entity-relationship modeling.

## TECHNICAL SKILLS

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**Languages:** Python, Java, SQL

**Frameworks:** Flask, FastAPI, PyTorch, Scikit-learn

**MLOps:** Airflow, MLflow, Docker, CI/CD, Git

**Databases:** PostgreSQL, MySQL, Firebase

**Cloud:** AWS, Google Cloud, BigQuery

**Other:** REST APIs, Data Modelling, Linux, Prompt Engineering

## PUBLICATIONS

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- **Unveiling the Mind:** A Survey on Stress Detection Using Machine Learning and Deep Learning Techniques.
- **XAD Framework:** Leveraging Token Attribution Instability for Real-Time Defense in Clinical NLP.