

# VISHNU ANAND

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## PROFILE

AI Engineer and Data Scientist with experience developing LLM-powered agents, building predictive models, and deploying scalable data workflows. Skilled in designing RAG pipelines, integrating OpenAI/Hugging Face APIs, and automating NLP tasks using LangChain. Adept at transforming raw data into insights that drive growth, automation, and operational efficiency. Proficient in Python, SQL, AWS, and Tableau, with expertise in AI model deployment, prompt engineering, and time series forecasting.

## EDUCATION

**Purdue University, Daniels School of Business**

*Master of Science in Business Analytics and Information Management – Focus on AI*

**West Lafayette, IN**

**August 2025**

**PES University**

*Bachelor of Technology in Computer Science Engineering – Minor in Data Science*

**Bengaluru, Karnataka**

**August 2022**

## PROFESSIONAL EXPERIENCE

**Care.com**

*AI Engineer Intern*

**Remote**

**May 2025 - Present**

- Built LLM-powered documentation and dev agents using Cursor and LangChain, increasing engineering throughput by 30%.
- Automated report generation and data ingestion pipelines using n8n, reducing turnaround time by 60% for marketing team.
- Designed prompt-chaining workflows to improve onboarding and automate unit test generation, enhancing engineering efficiency.
- Deployed autonomous agent for unit test generation, boosting test coverage and reliability across services.

**Prediction Guard**

*AI Engineer Intern*

**West Lafayette, IN**

**January 2025 – May 2025**

- Developed production-grade sales agents with LLMs, reducing sales cycle by 65% and tripling lead engagement.
- Used vector stores and embeddings to fine-tune RAG for agent responses based on sales behavior data.
- Co-authored research on LLM benchmarking; placed 2nd in INFORMS student competition

**Cognizant**

*Data Analyst*

**Bengaluru, India**

**August 2022 – February 2024**

- Migrated ETL pipelines (~1TB/month) from Informatica to AWS Glue, improving data flow efficiency by 50%.
- Designed QA automation for Hadoop pipelines, decreasing job failures and unplanned downtime by 50%.
- Integrated Snowflake and optimized BI query performance across 4 departments.

*Data Analyst Intern*

**January 2022 – August 2022**

- Led a team of 5 to build a hospital appointment system using Spring Boot, streamlining bookings and reducing scheduling errors.
- Completed training on cloud architecture (AWS), full-stack frameworks, and Agile methodologies.

## PROJECTS AND PUBLICATIONS

- **LLM SWE Benchmark Replication:** Injected documentation into GitHub repositories to improve LLM issue resolution accuracy in SWE-bench; analyzed performance uplift from added context.
- **Airbnb Superhost Prediction:** Built ML models to predict Superhost status; evaluated program impact using DiD and visualized insights via Tableau.
- **March Madness Bracket Modeling:** Designed ensemble models (66% bracket prediction accuracy); applied tuning for user prediction alignment.
- **A/B Ad Testing:** Ran statistically controlled experiment on ad messaging formats (social vs functional); analyzed CTR and engagement impact.
- **Water Usage Forecasting:** Created weekly time series model for commercial consumption; optimized contract costs, reducing monthly overhead by 12%.
- **Note-ing Hill App:** Developed note-taking Android app with OCR, speech-to-text, and summarization pipelines.
- **Burlington Ecommerce Strategy:** Analyzed sales funnel with Python/SQL; recommended UX and content adjustments to boost conversions.
- **Certifications:** Applied certifications across real-world projects, including deploying AI agents on AWS (Cloud Practitioner), building forecasting models (SAS Forecasting), and using Azure AI Fundamentals to evaluate model interpretability.

## TECHNICAL SKILLS

**Languages:** Python, SQL, Shell, Java, R, Javascript, Bash; **Tools & Platforms:** AWS, Tableau, Jira, Git, Docker, React, Spring Boot, Cursor, Postman, SAS, PostgreSQL, MySQL; **ML & AI:** Scikit-learn, TensorFlow, Keras, PyTorch, Hugging Face Transformers, Tokenization, Embeddings, RAG (Retrieval Augmented Generation), Prompt Tuning, Few-shot Learning, LangChain, Time Series Forecasting, A/B Testing, Hyperparameter Tuning, Cross-validation, Feature Engineering