ANURAG LAHON

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TECHNICAL SKILLS

- **AI/ML Technologies**: PyTorch, TensorFlow, Langchain, LlamaIndex, RAG, NLP, Fine-tuning with custom data, Vector embedding, MLOPS,Amazon Chronos
- **Generative AI**: Open-source and paid LLM models (Llama2, Mistral, OpenAI, Google Gemini Pro)
- **Programming Languages**: Python, R, SQL, JavaScript, HTML, CSS
- **Database & Vector Database**: PostgreSQL, MySQL, Cassandra, Pinecone, ChromaDB
- **Big Data Ecosystem**: Hadoop, Hive, PySpark, HBase, Sqoop
- **Cloud & Deployment**: AWS (EC2, Lambda, Bedrock), Azure
- **Data Visualization**: Tableau, PowerBI, Excel, Plotly
- **Libraries & Frameworks**: NumPy, Pandas, Scikit-learn
- **Tools & Platforms**: Jupyter, Git, SAS, Alteryx, Jira, Snowflake

EXPERIENCE

Digital Automation Engineer at Santa Ana Star Casino hotel   *July 2025 - Present*
- On premise to Databricks for data driven analytics for various use cases and departments.

Technology Director at CentralLinn School District, Oregon.   *April 2024- June 2025*

Objective: Maintaining all the technology from cyber security, devices and vendor management.
- Taking Responsibility of maintaining IT of the organization.

AI Engineer at Advithri Technologies LLC (Contract), Delaware   *Oct 2023 - April 2024*

Objective: Develop and implement advanced AI solutions to enhance business processes and decision-making capabilities.

- Designed and deployed an intelligent chatbot using RAG techniques, improving customer query resolution time by 30% and accuracy by 25%.
- Implemented predictive analytics and ML algorithms for trend forecasting, achieving a 20% uplift in accuracy and significantly impacting strategic decision-making.
- Leveraged Snowflake's cloud data platform with NLP models to overhaul business intelligence processes, employing SQL, Python, and Power BI for robust data analysis and AI-driven insights.
- Developed and fine-tuned large language models (LLMs) for specific business use cases, resulting in a 15% improvement in task-specific performance across various departments.
- Built different agents for large amount of databases and coordinate to work with specified workflow. Customized hierarchical agent   architecture and autonomy across the workflow.

Manager, Data Engineering at CHEP USA, Georgia   *Jan 2023 – July 2023*

Objective: Optimize data engineering processes to support B2B pricing software systems and enhance profitability.

- Developed ETL scripts for 30 data sources, implementing Generative AI models for data analysis and optimization.
- Automated business data problems, resulting in a 25% increase in operational efficiency using agile SDLC.
- Enabled a 15% surge in strategic insights through advanced data science-driven cost analysis including GAI models for customers.
- Directed successful completion of UAT by managing over 50 Jira stories and issues, ensuring timely project completion.
- Processed different needs and analytical workloads within a single service using Azure Synapse Analytics

Data Analyst at JP Morgan Chase, Delaware   *Apr 2022 – Oct 2022*

Objective: Enhance financial market data analysis and automation to improve decision-making processes while optimizing data infrastructure.

- Extracted, transformed, and visualized financial market data from 6 sources using Tableau, SQL, and Alteryx, integrating Snowflake as a central data warehouse to improve data accessibility and processing speed by 40%.
- Implemented Snowflake's cloud data platform to centralize and streamline data operations, resulting in a 50% reduction in data retrieval time and a 30% increase in data processing efficiency.
- Automated tasks using Python and Snowflake's native scripting capabilities, reducing processing time by 30% for different financial markets and improving data pipeline reliability.
- Implemented NLP techniques in conjunction with Snowflake's machine learning integrations to summarize financial market documents, improving information accessibility and reducing analysis time by 20%.

AI/ML Engineer at Global Technology Solutions LLC (GTS), Denver   *Jan 2022 – Mar 2022*

Objective: Develop AI-powered solutions for contact centers to improve efficiency and customer experience.

- Built products using AWS services (Connect, Transcribe, SageMaker, Lambda, IAM), reducing processing time by 40%.
- Led a technical team in applying ML models and GAI models for real-time data analysis and insights.
- Successfully managed stakeholder relationships and team coordination for timely project delivery.

Graduate Teaching Assistant at CU Denver Business School, Denver   *Aug 2020 – Dec 2021*
• Evaluated assignments, exams, cleared concepts of 40 students, and reviewed the professor's book.

Engineer at M.P. AGARWALLA, India   *Jan 2018 – Aug 2019*
•   Examined the work, lead a group of 3 and communicated as a team.

Machine Learning Teaching Assistant at Coding Ninjas, **India**   *May 2018 – Sep 2018*
•   Conducted teaching and doubt solving sessions for debugging codes and helping 100+ students to obtain a good understanding and grades assignments and projects. Achieved good 4.4 overall ratings.

PROJECTS

Q&A System with RAG-powered Blog Generation(Python, Llama-7B, PyTorch, Streamlit, Docker)   *Sep 2023*

Objective: Develop an end-to-end Question Answering system utilizing Large Language Models and Retrieval Augmented Generation for accurate and context-aware responses.

- Implemented RAG technique to compile natural language responses, improving answer relevance by 40% compared to traditional QA systems.
- Designed and built a data pipeline for ingesting proprietary knowledge bases into a vector database, reducing query time by 50% while maintaining 95% accuracy.
- Developed semantic search algorithms to retrieve relevant answers, increasing the precision of responses by 35%.
- Created a scalable production environment design, enabling the system to handle 10x more concurrent users without performance degradation.

PDF Query and Celebrity Search Application(Python, OpenAI, LangChain, HuggingFace, Streamlit)   *Jun 2023*

Objective: Create an efficient and user-friendly application for querying PDFs and searching celebrity information.

- Enabled faster and more accurate information retrieval, saving time and enhancing productivity.
- Streamlined user experience using Streamlit, offering a highly interactive and user-friendly interface.
- Implemented advanced search capabilities such as semantic similarity and keyword matching, enhancing precision.

EDUCATION

University of Cumberlands   *Jan 2025- Present*
Phd in IT with AI specialization

University of Colorado, Denver   *Jan 2020 – Dec 2021*

Master of Science in Business Analytics   ***GPA: 3.9***

Relevant Courses: **Statistics, Computing for Business Analytics, Predictive Analytics, Project Management,Data Visualization, Prescriptive Analytics with optimization, Network Modeling, Time Series Forecasting, Web Analytics, Supply Chain Analytics**

Kalinga Institute of Industrial Technology, Bhubaneswar, India   *Aug 2013 – May 2017*

Bachelor of Technology in Engineering

CERTIFICATIONS & AWARDS

- AWS SME (Subject Matter Expert) for AWS certification   *Feb 2024*
- Technical Editor for Manning Publication   *July 2024*
- Databricks Large Language Models: Application through Production   *Jun 2023*
- Amazon Web Services Certified Machine Learning - Specialty, AWS Certified Cloud Practitioner.   *Oct 2021*
- Business Graduate Merit Scholarship, Outstanding Graduate candidate at CU Denver Business School *Dec 2020*