# Baishalini Sahu

Lead Data Scientist

Artificial Intelligence | Generative AI | LLM | Machine Learning| NLP | Tech Lead | Product Mgmt

+91 9337448930    Bangalore, India

sahubaishalinidata@gmail.com

## About Me

Data Scientist | AI Enthusiast | Problem Solver

With a robust background of 7 years exp. in data science ML DL Gen AI, I specialize in creating data-driven AI solutions across various industries, including retail, mobility, cybersecurity, economics, and banking. My expertise spans across machine learning, deep learning, statistical computing, and more.

## Skills

- Coding - Python , DSA
- Core - AI ML  & Generative AI LLM
- ML - regression , Classifications , Time Series
- Deep Learning - ANN , RNN , CNN , Computer Vision
- Gen AI LLm 's - Open AI GPT s , Lamma , mistrial , Microsoft Phi, Groq , Deep Seek
- Cloud - AWS S3 , EC2, lambda , bedrocks , step Functions  , okta , CI CD Pipeline
- Database - Vector DB - Chroma , Opensearch DB , Cosmos DB, SQL
- Ops - Docker , Podman , Azure CLI , Kubernetes
- BI Tools - Power BI
- FullStack - Html CSS , React APP , Endpoints API
- Robotics - Embedded , sbory py , API , Sensors IOT

## Education

**Business Management Program**    2023 - 2024

Capstone Product - Interview Bot

- Objective: Led the development of a Generative AI-powered InterviewBot, an advanced AI application designed to conduct adaptive, real-time interviews, evaluate candidates across multiple domains, and optimize the hiring process for enterprises.

- Skills: Product Management, Generative AI, NLP, Machine Learning, Supply & Demand Planning, Financial Forecasting, System Architecture

- Product Development & AI Integration
- Architecture & Scalability
- Supply & Demand Optimization
- Financial Planning & ROI Optimization
- Cross-functional Team Leadership

**Master in Computer Application  , BPUT**   2016- 2018

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# Experience

**Acuity KP , Finance & Banking  ( Gen AI Engineer & PM)**
**CreditPulse: Dcumnet Prompting & Summarizing**    2024 Aug- Till

Objective: Developed a Generative AI-powered Financial Document Analyzer to process financial reports (IR, IB), PDFs, images, Excel, and CSV files, enabling AI-driven query processing, data extraction, summarization, and web crawling for insights.
Role:
- AI Query System: Built an intelligent engine to retrieve and highlight financial data.
- Document Processing & OCR: Extracted insights from PDFs, images, and spreadsheets.
- Summarization: Enabled AI-driven financial report summaries for quick insights.
- Web Crawling: Automated URL data extraction for enriched analysis.
- Product Management: Led AI model deployment, architecture design, and scalability.

Skills: Python, GenAI,lang chain , lang flow , Graph ,  RAG - OpensearchDB , LLM - Open AI GPT 4O,GPT 3.5 Turbo , GPT mini, Prompt Template , AWS Textract , AWS Lambda Services , S3, AWS Bedrocks, AI Agents . Azure CLI , CI CD Pipelines, Docker.

Workflow -
- Retriever - Chunking , vectorizations , annotations
- Extraction - embeddings, Opensearch Vector search
- Integrations - Frontend , Docker , CICD Pipeline , Open AI Service
Role : End to development with team , model building , testing client handling etc

# Experience

**EY , Finance & Retail Analytics  ( Lead Data Scientist)**
**SmartFin: Financial Document Analysis and Query System**    2024 Jan - 2024 Aug

Objective : Develop an application that reads, analyzes, and answers queries related to bank statements and score reports using advanced LLM and RAG models. This system will streamline financial document analysis, automate the extraction of key insights, and provide accurate responses to user queries.

Skills: Query System, OCR Technologies , NLP , RAG ,  LLM - Microsoft Phi/Vaccuna/Lamma / Mistral / GPT, Prompt Template , Mongo DB . Azure , CI CD Pipelines.
Role : End to development with team , model building , testing client handling etc

**Retail - Business Waste Optimization(Supply Chain)**

Objective : Proficient in leveraging AI and machine learning algorithms to optimize business waste management, reducing waste in finished goods (FG), raw materials (RM), and packaging materials (PM), thereby enhancing overall operational efficiency.

Skills : Python , Linear Programming (LP) , MILP, Genetic Algorithms (GA) , TSP
Role : Worked as a Lead optimization engineer  with team.

## Experience (PyramidAI Hub) - Co Founder & CTO

**Retail - Self-Drive Automation Stores ( CV , Gen AI )**

**Objective :** Proficient in utilizing generative AI and LLMs for precise product segmentation, ensuring accurate and efficient product categorization and management within automated retail environments.

**Skills** : GANs, Python , SAM , Yolov8, Microsoft resent, RCNN, Google vit , FassI , Azure , ci cd, Architecture , IOT Sensors, Web APP, NoSQL - Cosmos DB Hardaware Integrations.

## Accenture , Bangalore(Senior Data Scientist)

2021 Nov - 2024 Jan

### Chatbot Development ( NLP Open AI BERT - Healthcare )

- Objective : Develop an intelligent QA chatbot for healthcare assistance using advanced RAG models and LLMs. This system will provide accurate responses to medical queries, streamline patient interactions, and assist in the extraction of key insights from health records.

- Skills: Python , Deep learning , Transformers, BERT , RAG , LLMs , Gen AI , Google Vertex AI , GPT Models .

### Digital marketing Automation App ( NLP Open AI BERT - HR Operations )

- Objectives : Develop a digital automation application using advanced AI technologies to optimize workflows and enhance operational efficiency. This system will leverage AI for task automation, process optimization, and intelligent decision-making.

- Skills: Hugging Face , LLms text generations , Image generations models , Social media integration , full stack development

### Acc Lang Bot ( FullStack AI  - Communication)

- Objective: Designed and developed an AI-powered Document Translation System to accurately translate and process multilingual documents, enhancing accessibility and global communication.
- Outcome: Built a highly efficient and scalable translation pipeline using open-source AI models, improving translation accuracy and document processing speed.
- Skills: Hugging Face Transformers, OpenAI GPT, MarianMT, MBART, mT5, Google Translate API, AWS, NLP, Generative AI

### Retail , Logistic Domain (Optimization ML - Logistic)

- Objective: Solve the optimization problem in logistics scheduling and planning using various algorithms.
- Outcome: Enhanced efficiency and reduced costs through optimized route planning and scheduling.
- Skills - Math Formualtions , Genetic Algo , Gurobi , python , Machine Learning ,APP

### BRT , Retail & Telecom  Analytics  (Associate Data Scientist - FMCG / R etail / Telecom)

2019 Mar - 2021 Oct

### Retail , FMCG / CPG  (Predictive Analytics  ML - Logistic)

- Project 1: Optimize pricing strategies using predictive analytics for rebate and discount management with invoice data.

### Time Series Forecasting, Telecom Domain (SARIMA , FBProphet,LSTM - Logistic)

- Project 2: (Time Series Sales Forecasting) Forecast the future strategy in case of data usage , SMS , Calls how much cost spending.