

# Bernard Birendra Das

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## PROFESSIONAL SUMMARY

Results-driven software developer with a strong foundation in data science, full stack web development, and DevOps. Experienced in designing and deploying scalable, production-grade solutions using modern frameworks, cloud platforms, and MLOps/DevOps best practices. Adept at collaborating in cross-functional teams, leading feature delivery, and mentoring junior engineers. Passionate about building impactful products, automating workflows, and driving continuous improvement in fast-paced environments.

## AWARDS AND CERTIFICATIONS

<b>Foundational C# with Microsoft Developer Certification</b>	September 2023
<b>AWS Academy Graduate - AWS Academy Cloud Foundations</b>	November 2022

## TECHNICAL SKILLS

<b>Languages:</b> Python, Postgres, MySQL, MS-SQL, R
<b>Machine Learning / Deep Learning:</b> Scikit-learn, TensorFlow, PyTorch, XGBoost, LightGBM, CatBoost, Hugging Face Transformers
<b>Data Engineering:</b> Apache Spark, dbt, Airflow, Snowflake, BigQuery, Databricks, Kafka
<b>MLOps:</b> MLflow, Kubeflow, DVC, Prefect, Docker, Kubernetes, Git, CI/CD
<b>Cloud Platforms:</b> AWS (SageMaker), Redshift, Lambda, GCP (BigQuery), Vertex AI, Azure (ML), Data Factory
<b>Visualization:</b> Power BI, Tableau, Plotly, Seaborn, Matplotlib
<b>Other Skills:</b> Data Modeling, Feature Engineering, Experiment Tracking, A/B Testing, Agile (Scrum/Kanban), SOLID, Design Patterns

## EXPERIENCE

<b>Software Developer</b>   Simplify3x Software Private Limited   <b>2 yrs 5 mos</b>	January 2023 – May 2025
<ul style="list-style-type: none"><li>– Worked on the core product team of SimplifyQA product as a feature owner for PDF Reports and Pipeline Executions modules.</li><li>– Designed and implemented RESTful APIs and microservices in Node.js, significantly reducing service response times and improving overall system scalability.</li><li>– Developed dynamic, data-driven dashboards using Angular and D3.js, enabling real-time visualization of key performance metrics for business stakeholders.</li><li>– Collaborated with product owners, QA engineers, and DevOps to establish a CI/CD pipeline on Azure DevOps, cutting deployment times from hours to minutes.</li><li>– Mentored two junior developers through code reviews and pair-programming sessions, fostering best practices and accelerating feature delivery.</li></ul>	

## EDUCATION

CHRIST (Deemed to be University), Bangalore	<b>PhD in Data Science</b>   CGPA : –	December 2024 – present
CHRIST (Deemed to be University), Bangalore	<b>Master of Computer Applications (MCA)</b>   CGPA : 8.66	June 2021 – June 2023
St. Xavier’s College (Autonomous), Kolkata	<b>Bachelor of Computer Science Honours</b>   CGPA : 7.20	June 2018 – June 2021
Auxilium Convent School, Barasat	<b>ISC</b>   CGPA : 7.12	June 2016 – June 2018
Auxilium Convent School, Barasat	<b>ICSE</b>   CGPA : 7.64	June 2004 – June 2016

## PROJECTS

<b>End-to-End ML Pipeline with MLOps</b>   Kubernetes, MLflow, Airflow, Docker, AWS, FastAPI	2024
<ul style="list-style-type: none"><li>– Designed and deployed a scalable machine learning pipeline for tabular data, automating data ingestion, model training, and deployment using Airflow, MLflow, and Docker on AWS EKS.</li><li>– Implemented CI/CD for model retraining and versioning, with automated monitoring and rollback using MLflow and Kubernetes.</li></ul>	
<b>LLM Fine-Tuning and Deployment</b>   Hugging Face, Transformers, FastAPI, Streamlit, GCP	2024
<ul style="list-style-type: none"><li>– Fine-tuned open-source LLMs (e.g., Llama 2, Falcon) on domain-specific datasets using Hugging Face Transformers and deployed as RESTful APIs with FastAPI.</li><li>– Built an interactive Streamlit app for real-time inference and integrated with GCP Vertex AI for scalable serving.</li></ul>	
<b>Real-Time Data Analytics Platform</b>   Kafka, Spark, Snowflake, Power BI	2023
<ul style="list-style-type: none"><li>– Developed a real-time analytics platform for streaming financial data using Apache Kafka and Spark Structured Streaming.</li><li>– Automated ETL pipelines to Snowflake and built interactive dashboards in Power BI for business insights.</li></ul>	
<b>Computer Vision for Defect Detection</b>   PyTorch, OpenCV, TensorFlow, AWS Sagemaker	2023
<ul style="list-style-type: none"><li>– Built and deployed deep learning models for automated defect detection in manufacturing images, achieving 95%+ accuracy.</li><li>– Leveraged AWS Sagemaker for scalable training and inference, and OpenCV for image preprocessing.</li></ul>	

**Recommendation System at Scale** | *BigQuery, TensorFlow, Scikit-learn, Flask API* 2022

- Engineered a collaborative filtering and content-based recommendation engine for e-commerce, processing millions of records in Google BigQuery.
- Served recommendations via a Flask API and monitored performance with custom analytics.

**Time Series Forecasting for Business** | *Prophet, ARIMA, DVC, Azure ML* 2022

- Implemented time series forecasting models (Prophet, ARIMA) for sales and demand prediction, with experiment tracking using DVC.
- Deployed models to Azure ML for automated retraining and reporting.

**NLP Pipeline for Sentiment Analysis** | *spaCy, NLTK, BERT, GCP Vertex AI* 2021

- Developed an end-to-end NLP pipeline for sentiment analysis on social media data, leveraging spaCy, NLTK, and BERT embeddings.
- Deployed scalable inference on GCP Vertex AI and visualized results with custom dashboards.