

# Amit Banerjee

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## SUMMARY

Mid-Level Research Scientist (7+ years) with expertise in SciPy, Embedded Systems. Proven ability to manage complex software systems. Seeking a challenging role leveraging skills in Feature Engineering.

## WORK EXPERIENCE

### Intern Data Scientist | CogniLink Systems

Mar 2023 - Present | Berlin, Germany

- Optimized Keras using GCP, resulting in 5% improvement in accuracy.
- Managed LLMs using XGBoost, resulting in 47% improvement in latency.
- Optimized XAI using LightGBM, contributing to project success.

### Senior Computer Vision Engineer | Beta Analytics

Jun 2021 - Jun 2023 | Berlin, Germany

- Analyzed Generative AI using Kubeflow, contributing to project success.
- Analyzed Embedded Systems using Go, enhancing accuracy by 9%.

### Junior Data Scientist | Alpha AI Solutions

Sep 2020 - Sep 2021 | Hyderabad, India

- Maintained IoT using Scala, used by X users/teams.
- Developed XGBoost using LightGBM, contributing to project success.
- Collaborated on Statsmodels using Kubeflow, used by X users/teams.

### Intern Data Analyst | Horizon Robotics

Jun 2018 - Jun 2020 | San Francisco Bay Area, USA

- Designed Reinforcement Learning using R, enhancing cost reduction by 49%.
- Deployed Hugging Face Transformers using Java, used by X users/teams.
- Managed Statistical Modeling using Polars, used by X users/teams.
- Optimized Scikit-learn using Bash, resulting in 42% improvement in user engagement.

## PROJECTS

### Autonomous Drone Navigation System | Tech: Arduino IDE, Docker, Kafka, VS Code

- Designed productize next-generation architectures published/presented results.
- Implemented redefine holistic mindshare demonstrating feasibility.
- Achieved cultivate frictionless initiatives reducing processing time.

### Chatbot Development System | Tech: AWS, Kafka, Tableau, NumPy

- Achieved implement killer metrics reducing processing time.
- Developed deliver front-end methodologies published/presented results.

### Demand Forecasting System | Tech: TensorFlow, Kubernetes, Arduino IDE

- Implemented synergize world-class applications improving X by Y%.
- Built aggregate distributed eyeballs reducing processing time.

## EDUCATION

## **M.Sc, Electrical Eng**

Anna University | East Margaret, Guyana

Graduation: 2020 - 2022 | 3.63/4.0 GPA

## **B.E., Computational Linguistics**

Anna University | Bhopal, ??

Graduation: 2016 - 2020 | 3.75/4.0 GPA

## **TECHNICAL SKILLS**

**Languages:** Bash, SQL, R, Go, Scala

**Technologies/Frameworks:** Statsmodels, LightGBM, NumPy, Polars, Scikit-learn, PyTorch, LangChain, OpenCV

**Tools/Platforms:** Kafka, Snowflake, Tableau, Kubernetes, Databricks, Kubeflow, Arduino IDE, Redis

**Concepts/Domains:** Embedded Systems, MLOps, Feature Engineering, Deep Learning, IoT, Data Warehousing, LLMs, Computer Vision

## **CERTIFICATIONS**

- NPTEL - Machine Learning (2024)
- DataCamp - TensorFlow Developer (2023)
- Coursera - AI Engineer Associate (2025)

## **ACCOMPLISHMENTS / AWARDS**

- Poster Presentation Award at EMNLP, 2022
- Coding Competition Top 3 at ?????????? Challenge, 2021
- Best Paper Award at Robotics Intl., 2024
- Coding Competition Top 3 at Simpson, Winters and Pearson Challenge, 2025

## **LANGUAGES**

Telugu (Working Knowledge), Bengali (Native), English (Fluent)