Ajoy Kumar Das

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🔗 Portfolio   ⦿ Github

Bē Behance

Professional Experience

07/2022 – 08/2024
Guwahati, Assam

MIS Executive
Luit Minerals ⧉
- **Spearheaded analytical frameworks** using **SQL** to standardize impact evaluation and data reporting
- **Leveraged Python** for deep-dive EDA and inferential statistics to identify emerging market trends.
- **Developed predictive models** and attribution logic in **Python** to generate actionable business forecasts.
- **Built high-fidelity BI dashboards** to translate complex datasets into clear, automated visualizations.
- **Influenced executive decisions** by delivering strategic statistical storytelling and data-driven insights.

07/2020 – 08/2020
Guwahati

Machine Learning with Artificial Intelligence (AI)
E-SUMMIT IIT BHUBANESWAR(WAC)
I led the development of a real-time facial analysis application that utilized **CNN-based deep learning** to automate emoji prediction. By integrating **Haar Cascade** for face detection and a custom **FER model**, I created a seamless interface capable of translating live human expressions into digital icons, demonstrating proficiency in **Computer Vision** and **Neural Network optimization**.

06/2019 – 07/2019
Jorhat

Android Application Development
National Institute of Electronics and Information Technology (NIELIT)
Studied the fundamental requirements for building robust Android applications, focusing on **System Architecture** and **Native Component Lifecycle**. Successfully developed interactive applications by integrating various Android APIs and adhering to **Material Design** standards

06/2019 – 07/2019
Jorhat

Python Programming
National Institute of Electronics and Information Technology (NIELIT)
Gained comprehensive proficiency in **Python programming fundamentals**, focusing on complex data structures and functional logic. Experienced in managing virtual environments and reproducible research using **Anaconda** and **Jupyter**.

Projects

Malware Detection using Machine Learning algorithm
(*B.tech final year project*: *June 2021 – August 2021*)
Developed a predictive model to identify and classify malicious software using **Random Forest** and **SVM** algorithms. Performed **feature extraction** from PE files, optimizing detection accuracy through supervised learning and dataset normalization.

Cypher Bot
(*March 2021*)
Engineered a Discord bot using Python and discord.py ⧉ library. Implemented Asynchronous programming (async/io) and Command Cogs for modularity, enabling automated server moderation and efficient event-driven responses via Webhooks.

Sauce
(*Mar 2020 - Jun 2020*)
Architected **Sauce**, a cross-platform mobile application streamlining online food ordering and delivery. Implemented real-time menu browsing, secure checkout, and order tracking, ensuring a seamless user experience across multiple devices.

Wall-Q
(*August 2020*)
Developed a native Android application integrating **Pexels, Unsplash, and Pixabay APIs**. Implemented **asynchronous data fetching** and the **WallpaperManager API** to seamlessly set high-definition images on Home and Lock screens.

V-19 - A Covid -19 Tracker
(*May 2020*)
Developed a native Android application, **V-19**, providing real-time, district-wise COVID-19 tracking for Assam. Integrated live APIs to display critical metrics, including total active, confirmed, recovered, and deceased patient data.

Facial Recognition & Detection and Emoji" Prediction using Machine Learning
(*Internship, May 2020 - Jun 2020*)
Developed a real-time computer vision system using **Python**, **OpenCV**, and **TensorFlow**. I engineered a **Convolutional Neural Network (CNN)** to detect facial features and classify emotional states. The application successfully mapped live expressions to corresponding emojis, demonstrating proficiency in image preprocessing, deep learning model training, and seamless human-computer interaction.

Chatbot with Natural Language Processing
(*March 2020*)
Developed a sophisticated chatbot utilizing **Natural Language Processing (NLP)** to interpret and respond to user queries. Leveraged **Python** and intent-classification models to ensure contextually accurate and seamless human-like interactions.

Rent a Room
(*Internship project for NIEIT, Jun 2019 - Jul 2019*)
Architected a full-stack, cross-platform mobile application utilizing **native-performance components**. Engineered **scalable backend services** for **real-time state synchronization** and **geospatial querying**, optimizing the **discovery pipeline** for rental markets through **asynchronous data fetching**.

Formulas Simulation with Python
(*Internship project for NIEIT, Jun 2019 - Jun 2019*)
A **Python-based computational engine** to simulate complex physics and geometric models. Developed modular algorithms for **Laws of Motion**, **Centre of Gravity**, and financial interest, prioritizing **computational accuracy**, **algorithmic logic**, and efficient data handling within a **CLI** environment.

Training/Workshops

03/2021	**Foundations Of User Experience (UX) Design** *Google* Studied **User Experience (UX) Design** principles, focusing on the end-to-end design process. Gained proficiency in **user research**, **wireframing**, and **prototyping** to create accessible, intuitive interfaces that solve real-world user problems
09/2020 – 10/2020	**Unity Game Development** *Unity* Developed proficiency in **Unity Game Engine** and **C# scripting**, focusing on **physics-based player controls** and **component-based architecture**. Gained experience in **environment building**, **animation controllers**, and **spatial audio integration** for immersive gameplay.
08/2019 – 09/2019	**Ethical Hacking** *Internshala* Gained foundational knowledge in **Web Application Security**, focusing on the **OWASP Top 10** framework. Studied critical vulnerabilities and mitigation strategies for **Cross-Site Scripting (XSS)**, **SQL Injection**, and secure data handling

09/2018 Guwahati	**Android App Development** *IIT Guwahati* Mastered **Android SDK**, **Gradle**, and **Architecture** fundamentals through **structured learning**, utilizing **Android Studio** and **Emulator development techniques** to build high-performance applications.
10/2018 Guwahati	**Internet Of Things** *In House Training (organized By GUIST)* Developed foundational expertise in **Embedded Systems** and **IoT** using **Arduino**. Focused on **hardware-software interfacing**, **analog/digital signal processing**, and **circuit design** to create functional prototypes for smart automation and real-time monitoring

Skills

Programming Languages
C, C++, Java, Kotlin, Python

Professional IDEs
IntelliJ IDEA, Android Studio, VS Code, PyCharm
Cloud/Backend
Google Firebase (Auth, Firestore)
Design/UX
Figma, Adobe XD, Wireframing, Prototyping
Tools/DevOps
Git, GitHub, Postman, Gradle

Data Libraries
Python (Pandas, NumPy, Matplotlib, Seaborn, Plotly)

Raster/Painting
Adobe Photoshop

Application Development

BI Platforms
Power BI
Tableau

Data Management
SQL (MySQL, PostgreSQL), Excel (Pivot Tables, VLOOKUP, VBA)

Education

2017 – 2021 Guwahati	**Bachelor of Technology (Information Technology)** *Gauhati University Institute of Science and Technology*

Extra-Curricular Achievement

- Organized **ENVISION '19**, a business plan competition at college.(GUIST)
- Qualified for Inter-district Art competition.
- Won an Inter-school Cultural Art competition.

Declaration

I hereby declare that the information furnished above are true to the best of my knowledge.