Krishna Kamal Baishnab

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Education

Cardiff University [GPA - 3.4]   **September 2022 – October 2023**
Masters of Science in Advanced Computer Science   *Cardiff, United Kingdom*

Assam Don Bosco University [GPA - 3.3]   **July 2016 – August 2021**
Bachelor of Technology in Computer Science and Engineering   *Guwahati, Assam*

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Computer Networks
- Operating Systems
- Software Methodology
- Database Management
- Information Security
- Computer Architecture

Experience

Rutick One Limited   **September 2023 – Present**
IT and Administrative Analyst   *Edinburgh, United Kingdom*

- Automated backend processes for data collection and reporting using **Python**, reducing manual workload and response time by 15%.
- Designed internal dashboards with **Power BI** to monitor KPIs, enabling faster decision-making and reducing reporting overhead.
- **Technologies: Python, Power BI, SQL, Process Automation, Trello**

SenseIO.net   **November 2021 – August 2023**
Software Engineer   *India, Remote (Contract)*

- Developed RESTful APIs using **FastAPI**, **Flask** and **Django**, supporting scalable and secure backend systems.
- Integrated machine learning models into production-grade backends, delivering personalized user insights for clients.
- Collaborated with frontend developers to integrate APIs and real-time analytics features across platforms.
- Built, containerized, and deployed ML pipelines on **AWS EC2** using **Docker**, ensuring reliable cloud-based delivery.
- **Technologies: Python, Flask, Django, TensorFlow, Docker, EC2, AWS, MySQL, REST API**

Cardiff University   **January 2023 – May 2023**
Teaching Assistant   *Cardiff, United Kingdom*

- Assisted students with implementation of data pipelines and statistical models for time-series forecasting assignments.
- Provided guidance on Python tools and libraries for efficient data processing in coursework and workshops.
- Supported setup of computing environments for data science labs.
- **Technologies: Python, Pandas, Time-Series Analysis, Jupyter**

Indian Institute of Technology Bhubaneswar   **July 2020 – August 2020**
Machine Learning Intern   *Bhubaneswar, India*

- Built modular chatbot backend using **KNN** and **K-Means**, improving accuracy by 30% and scalability by 40%.
- Implemented RESTful services for chatbot interaction using **Flask**, supporting real-time user communication.
- Performed extensive data preprocessing and feature selection to improve ML model performance.
- **Technologies: Python, Scikit-learn, Pandas, NumPy, Flask, Matplotlib**

Projects

Habit Tracker

- Developed a lightweight Chrome extension to track and gamify browsing habits, improving user awareness and productivity.
- Used **Chrome Extension APIs** (tabs, storage) with background scripts to monitor real-time site usage and display dynamic usage stats via a responsive popup interface.
- Integrated a reward system and daily goals with local storage persistence.
- Applied modular JS design and error handling to ensure low memory overhead and seamless cross-browser performance.
- **Technologies: JavaScript, HTML, CSS, Chrome Extension APIs**

Store Front

- Developed a scalable full-stack e-commerce platform using **Django** and **MySQL**, supporting user auth, cart management, and product search.
- Implemented JWT-based secure login, optimized DB queries with indexes, and containerized the app using **Docker** for portability.

- Added personalization features (tagging, product likes) and an admin dashboard for order/user management.
- Unit-tested key backend modules to ensure reliability.
- **Technologies: Django, Python, MySQL, Docker, HTML/CSS**

ACE STUDENT – **Academic Support Platform** *(Founder & Developer)*
- Built and deployed a responsive academic support platform using **HTML**, **Tailwind CSS**, and **JavaScript**, deployed on **Vercel**.
- Integrated **EmailJS** for real-time contact form submissions and automated lead capture.
- Acquired initial clients organically, delivering high-quality academic support solutions.
- **Technologies: HTML, Tailwind CSS, JavaScript, EmailJS, Git, Vercel**

Technical Skills

Programming Languages: HTML, CSS, Python, Java, C/C++, JavaScript, SQL, Bash
Frameworks & Libraries: FastAPI, Django, Flask, RESTful API, PyTorch, Tensorflow
Technologies: Git, Docker, Kubernetes, CI/CD, Postman, Linux
Cloud & DevOps: AWS, GCP, Azure, Cloud Deployment
Databases: PostgreSQL, MySQL, SQLite, MongoDB

Achievements & Technical Highlights

- **1st Rank** in Python Competitive Programming
- **Resource Person** at Programming Workshop
- Scored **92%** in Master's Final Semester
- Solved **100+ DSA problems** on LeetCode and HackerRank
- Active open-source contributor on GitHub (backend, design, algorithms)
- AWS Practitioner
- Data Science Professional Certificate - IBM