

AAYUSH ANAND

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Education

New York University

Expected May 2026

Master of Science in Computer Science

New York, USA

- GPA: 3.778/4.00
- Relevant Coursework: Artificial Intelligence, Big Data, Design and Analysis of Algorithms, Human Computer Interaction, Machine Learning, Principle of Databases and Systems

SRM Institute of Science and Technology

September 2020 – May 2024

Bachelor of Technology in Computer Science and Engineering

Chennai, India

- GPA: 9.58/10
- Relevant Coursework: Operating Systems, Software Engineering, Object Oriented Programming, Data Structures and Algorithms, Computer Networks, Database Management Systems, Data Mining

Work Experience

Beahead Private Limited

March 2024 – July 2024

Data Analytics Intern

- Optimized and streamlined over **50 SQL queries**, increasing data extraction and processing efficiency by **30%**, enabling faster real-time data ingestion and improving decision-making processes.
- Designed and developed **10+ interactive dashboards** in **Tableau** and **Power BI**, providing actionable insights on energy usage and performance metrics, enhancing decision-making by **15%**.
- Utilized **Python** and **Beautiful Soup** for advanced data analysis, integrating business intelligence with machine learning techniques to forecast energy consumption trends and improve predictive accuracy.
- Analyzed **large datasets** to identify inefficiencies and patterns, driving data-based decisions that Upgraded energy usage, reduced operational costs, and improved overall system performance.

Clovity

November 2022 – April 2023

Software Developer Intern

- Resolved critical bugs in an **e-commerce platform** using **PHP** and **MySQL**, improving system reliability and user experience by ensuring seamless functionality and reducing downtime.
- Engineered **RESTful APIs** with **Node.js** and **MongoDB**, enabling seamless data integration for scalable applications and improving data flow efficiency by **25%**.
- Collaborated in an **agile environment** to address technical challenges, implementing data-driven pricing solutions that improved decision-making accuracy by **20%**.
- Fine-tuned database performance by implementing **indexed key fields** and query optimizations, reducing data retrieval times by **40%** for over 10,000 records.
- Enhanced system scalability by integrating **microservices architecture**, enabling the platform to handle a **30% increase in user traffic** without performance degradation.

Projects

Projection of Distracted Driver Using Deep Learning Model

- Executed **Convolutional Neural Networks (CNNs)** and **Python** to achieve precise driver behavior detection with an accuracy rate of **90%**, ensuring real-time monitoring and enhanced road safety.
- Devised a system to detect driver activity with **95% accuracy** by fine-tuning machine learning models and optimizing feature selection, reducing false positives by **20%**.
- Processed and preprocessed **large datasets** by applying advanced data augmentation techniques, improving model precision and ensuring robust performance under varying conditions.

MendIT (Job Portal) using MERN

- Constructed a full-stack web application using **PHP, HTML, CSS, JavaScript, and MySQL** to provide a platform for job listings and user interactions, processing **over 10,000 records** with seamless functionality.
- Implemented features to display job listings, user profiles, and search functionality, **achieving 95% accuracy** in retrieving relevant results by optimizing database queries and indexing.

Technical Skills

Programming Languages: Python, HTML/CSS, SQL, C++

Technologies/Frameworks: Django, Flask, FastAPI, Node.js, React.js, Next.js, Spring, Spring Boot, JUnit, Mockito

Developer Tools: Jenkins, Kubernetes, Docker, GIT

Machine Learning & AI: TensorFlow, PyTorch, Scikit-learn, OpenCV, Hugging Face Transformers, Bart

Platforms: Linux, Web, Windows, Arduino, AWS, GCP, IOS

Big Data & Databases: Apache Hadoop, Pig, Hive, Spark, Kafka, NoSQL, MongoDB, FAISS, HDFS, MapReduce