Nayana Agrahara Dattatri
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PROFESSIONAL SUMMARY

Proactive and detail-oriented Computer Science graduate student with a strong academic foundation and hands-on experience in backend development, cloud computing and real-time systems. Proficient in Python, Java, C#, and GCP. Successfully improved operational workflows and reporting systems during industry experience at Infosys, achieving faster data accessibility and streamlined reporting processes. Developed a real-time sound event detection model achieving 90% accuracy on limited-resource devices. Comfortable working in agile environments, driven by curiosity and committed to delivering high-impact software solutions.

EDUCATION

MSc Advanced Computer Science **Graduation: Nov 2024**
Newcastle University, UK
Relevant Courses: Data Science, Cloud Computing, IoT, Machine Learning, Engineering for AI

B.E. Information Science **Graduation: Oct 2020**
Malnad College of Engineering, India
Relevant Courses: Programming in C, Java Programming, Web Technologies, Data Structures, Database Management Systems, Big Data and Hadoop, Operating Systems, Software Engineering/Testing, Cryptography, and Network Security.

TECHNICAL SKILLS

Programming Languages: C#, Python, Java, SQL, HQL, C++, JavaScript, HTML, CSS

Web Development: React, Node.js, Bootstrap

Software Development: Object- Oriented Programming (OOP), Algorithms, Design Patterns

Databases: PostgreSQL, MySQL, SQLite, SQL Server Management Studio

Cloud Technologies: Google Cloud Platform (GCP), Azure (Basic), AWS (Basic)

Tools: Visual Studio, Eclipse, Apache Tomcat, PostgreSQL, SNOW, Hue, Agile methodologies, RESTful APIs, Microservices

KEY PROJECTS

Lightweight Transformer for Sound Event Detection | May 2024 – Aug 2024

- **Technologies Used**: Deep Learning, CNN, CRNN, Transformer models
- **Description**: Designed a deep learning model for real-time sound event detection, achieving 90% accuracy on resource-constrained devices, highlighting expertise in machine learning and real-time systems.

Secure Chat System | Feb 2024 – Apr 2024

- **Technologies Used**: FastAPI, WebSockets, PostgreSQL, Redis, OAuth2, JWT
- **Description**: Built a secure, encrypted chat platform with real-time communication capabilities using FastAPI and WebSockets. Integrated PostgreSQL for data management and Redis for caching to optimize performance.

Political Bias Recognition Using Tweets | Jun 2020 – Sep 2020

- **Technologies Used**: Python, Visual Studio, MySQL
- **Description**: Developed a sentiment analysis model to predict political tendencies from tweets, utilizing machine learning techniques to analyze and classify large datasets. This project demonstrates expertise in data analysis, algorithm development, and practical application of machine learning models.

All other projects summary

EXPERIENCE

Infosys Limited **Mysore, India**
Systems Engineer **June, 2021-September, 2022**

- Built a Python-based sales info app on GCP, boosting data access and cutting report time by 30%.
- Improved operational efficiency through data analysis using HQL and SQL.
- Collaborated in agile teams to ensure smooth system performance and developed custom solutions for reporting.

Invenger Technologies pvt. ltd **Manglore, India**
Web Develop Intern **June – July, 2019**

- Built a job portal using Java, HTML/CSS, Bootstrap & PostgreSQL to enhance user performance & accessibility.
- Focused on secure data handling and user-friendly design in a full-stack development environment (Internship)

CERTIFICATES

- Workshops: IoT Applications, Microservices in Java, and Parallel Computing (Certificates)
- Paper publication: Primary author for a survey paper published by IJSREM journal (Paper)