

Aniruddha Kulkarni

aniruddha.k1911@gmail.com | (602)413-0612 | NC, 27606 | [linkedin.com/in/aniruddhark](https://www.linkedin.com/in/aniruddhark) | github.com/akulka404

EDUCATION

North Carolina State University May 2025
Master of Computer Science GPA: 3.56/4.00

- Coursework: Natural Language Processing, Data Science and Analysis, Neural Networks

Pune University May 2023
Bachelor of Technology, Computer Engineering GPA: 3.85/4.00

- Coursework: Algorithms, Data Structures, Databases, Networking, Artificial Intelligence

SKILLS

Languages: Python, C/C++, Java, R, SQL
Frameworks & Libraries: Django REST Framework, MongoDB, JavaScript, Angular, Pandas, Matplotlib, NumPy, Seaborn, TensorFlow, PyTorch, PySpark, NLTK, scikit-learn
Tools: Amazon Web Services, Heroku, Docker, Kubernetes, Git, LLMs (GPT-4/Llama/Claude/BERT)
Specialization: Machine Learning (Supervised/Unsupervised), Deep Learning (YOLO/RCNN/Darknet), Natural Language Processing (Data cleaning, Embeddings, Fine-tuning, BERT, Model Evaluation), Vision (OpenCV)

PROFESSIONAL EXPERIENCE

IBM, Software Labs July 2022 - Jan. 2023
Project Intern (Software Engineering & Data Analyst) Bangalore, IN

- Reclassified **30,000+ alerts across 10 servers**, generating actionable insights to improve monitoring systems.
- Developed a scalable alert categorization product, streamlining escalation workflows and boosting efficiency.
- Adapted a **Python**-operated pipeline integrating **PagerDuty** and **Zabbix**, enabling seamless alert processing.
- Reduced alert misclassifications by 80%**, ensuring precise prioritization and faster resolution times.

Trident Labs, VIT Pune Nov. 2019 - July 2022
Software Engineer, Autonomous Underwater Vehicle Team Lead Pune, IN

- Strengthened the software stack using computer vision, executing underwater tasks with precision and reliability.
- Assembled a **Python**-based operating system and user interface, streamlining real-time testing and debugging.
- Secured **75% accuracy** in real-time image processing on a Raspberry Pi, establishing a **cost-efficient solution**.
- Built realistic simulation environments using UWSim, enhancing testing while mirroring underwater conditions.

Conexstra Technologies July 2021 - Jan. 2022
Software Developer Intern Pune, IN

- Contributed to Praisio, a SaaS product improving driver safety using **Python**-based data processing and analytics.
- Engineered vehicle simulations using the CARLA Simulator and reinforcement learning to refine safety systems.
- Achieved 95% accuracy** replicating real-world scenarios using computational algorithms and machine learning.
- Delivered on B2B media content leveraging predictive analytics and simulation-driven insights for impact.

KEY PROJECTS

Natural Language Processing- Crafted a text classifier model by fine-tuning **BERT** parameters, leveraging data preprocessing, **embedding** techniques, and **feature engineering**. Created and annotated a news dataset, achieving **85% precision** on unseen data, demonstrating a robust capability for **generalization** and real-world application.

Data Analytics & Database Management- Architected a low-latency **IoT solution with 92% accuracy** for parking alerts using **Docker, Python, and MongoDB**. Directed surveillance data analysis with Number Plate Recognition, leveraging data science to optimize enforcement and driver innovation in smart surveillance systems.