

SAKETHRAM KATAKAM

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PROFESSIONAL SUMMARY

Results-oriented Computer Science graduate with hands-on experience in data analytics, machine learning, and full-stack development. Skilled in Python, SQL, Power BI, Django, and AWS (EC2, S3, CloudWatch). Familiar with DevOps workflows, CI/CD pipelines, Docker, and GitHub Actions. Certified in Power BI, AWS, and SQL. Passionate about using data to solve real-world problems and build scalable, high impact solutions.

EDUCATION

Chaitanya Bharathi Institute of Technology, Hyderabad

November 2020 - July 2024

Bachelor of Engineering, Computer Science and engineering

CGPA: 8.2/10

SKILLS

- Languages: Java, Python, SQL, C, Javascript, HTML, CSS
- Tools & Frameworks: Django, React, Power BI, AWS, Spring Boot, Git, Docker, Linux
- DevOps & Cloud: CI/CD, Jenkins, Terraform, AWS[EC2, S3, IAM, VPC, CloudWatch]
- Databases: MySQL, SQL Server, Postgres

INTERNSHIP EXPERIENCE

Machine Learning & Data Science Intern

PHN Technology Pvt Ltd, Remote | Apr 2023 – June 2023

- Applied Python, Pandas, and NumPy to perform advanced data wrangling, transformation, and exploratory data analysis (EDA) on large real-world datasets, enhancing data quality and model readiness.
- Designed, developed, and fine-tuned machine learning models using Scikit-learn, improving predictive accuracy by up to 18% compared to baseline models.
- Built automated data pipelines for data ingestion, cleaning, and feature engineering, reducing manual processing time and improving reproducibility.
- Created actionable visualizations using Seaborn and Matplotlib to communicate insights and support data-driven decision-making by key stakeholders.

PROJECTS

Inattentional Driver Detection and Alert System:

Tools & Technologies: Python, TensorFlow, OpenCV, Keras, Faster R-CNN, ResNet-50, Matplotlib, NumPy, Jupyter Notebook.

- Built a machine learning pipeline to process large volumes of driving video and sensor data, achieving 96% accuracy in distraction classification.
- Applied information retrieval techniques to match detected driver states with contextual road information (e.g. lane offset, physiological signals).
- Used optimized data loading and parallel processing to handle large datasets efficiently during model training.

E-commerce Website:

Tools & Technologies: Python, Django, HTML, CSS, Bootstrap, SQLite, Django ORM.

- Developed a full-stack e-commerce website with user authentication, role-based access control, and a dynamic shopping cart system using Django and SQLite.
- Implemented secure login/logout workflows, session management, and user-specific permissions to enable admin and customer roles.
- Designed a fully responsive frontend using HTML, CSS, and Bootstrap, ensuring seamless user experience across devices.
- Improved backend performance by 35% through optimized Django ORM queries and efficient database schema design.

Cloud-Based Web App Deployment with CI/CD on AWS:

Tools & Technologies: AWS EC2, S3, Route 53, ACM, CloudWatch, Docker, GitHub Actions, NGINX, Ubuntu, CI/CD.

- Designed and deployed a distributed web application architecture using multiple AWS EC2 instances behind NGINX reverse proxy.
- Configured Route 53 DNS + ACM SSL certificates to handle traffic securely and reliably.
- Used Linux (Ubuntu) environment for server setup, security hardening, and automated deployment with GitHub Actions CI/CD.
- Managed TCP/IP configurations (port routing, firewall, security groups) to control network access.
- Monitored performance using AWS CloudWatch and auto-scaled resources based on load.

CERTIFICATIONS

- Microsoft Certified: Power BI Data Analyst Associate — Microsoft — 2024
- Google Cloud Computing Fundamentals — Google — 2024
- Cloud Computing with AWS — Internshala — 2023
- Microsoft SQL Server Certification — Microsoft — 2024
- AWS DevOps - 2025

ACHIEVEMENTS

- Published paper: *Inattentional Driver Detection Using Faster R-CNN and ResNet* – EasyChair Preprints, May 2024
- Finalist in 3+ hackathons conducted by GDSC and COSC tech clubs.
- Completed professional communication course from EFLU, Osmania University