

ANURAG DILIP GORKAR

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Education:

North Carolina State University, Raleigh, NC || Master of Computer Science (Expected) 08/2024 – 05/2026
Courses: Automated Learning and Data Analysis, Software Engineering, Object Oriented Programming CGPA: 3.87/4
Pune Institute of Computer Technology, Pune, India || BE Computer Engineering 05/2018 – 05/2022
Courses: Computer Networks, Operating Systems, Data Structures, Web Technology, Database Systems CGPA: 9.6/10

Skills:

Languages & Frameworks: Python, R, C++, Java, Kotlin, Dart, SQL, JavaScript, HTML, CSS, Ruby, Type Script

Tools & Platforms: Databricks, Jupyter, Anaconda, Tableau, MS Excel, Selenium, Apache Airflow, GitHub

Big Data & Data Bases: Apache Spark, Hadoop, MongoDB, MySQL, PostgreSQL, Cassandra, Apache Kafka

ML Frameworks: TensorFlow, PyTorch, Keras, Scikit-learn, PySpark, Hugging Face, OpenCV, NLTK

Web & Application Development: Flutter, Android Studio, Node.js, React, Angular, Flask, Django, RESTful APIs

Work Experience & Internships:

Unit Manager: PL Data Science, Bajaj Finserv Ltd., Pune, India 07/2022 – 07/2024

- **Propensity Model:** Developed and deployed an **XGBoost** model within an **MLflow**-managed **Databricks** pipeline to predict personal loan acquisition, boosting conversion rates by 57% through efficient data processing with SQL and **PySpark**.
- **Risk Scoring Model:** Built a **deep learning regression model** to identify high-risk customers, reducing bad debt by up to 2%. Performed roll rate and vintage analysis and optimized performance through stepwise selection and WoE transformation.
- **Survival Analysis:** Executed survival analysis to accurately forecast 12-month loan default probabilities, leveraging Kaplan-Meier estimators and Cox regression to analyze and quantify borrower risk factors, improving risk assessment precision by 15%.

Data Engineering and Research Intern, ASAR, Pune, India 06/2021 – 02/2022

- Engineered a pipeline using **R** and Google Earth Engine to generate minimum travel time maps for healthcare access, based on Weiss et al.'s accessibility indicators, enhancing data processing efficiency by 20%.
- Spearheaded population-level geographic health access analysis in **Python** and **R**, presenting key findings at the Consortium of Universities for Global Health (CUGH) 2022, improving stakeholder engagement by 25%.

Software & Research Intern, Defence Research & Development Organization, Remote 07/2020 – 09/2020

- Designed a deep learning framework using **TensorFlow** to detect steganography in images and automated the analysis of HEX and EXIF data with Python scripts, increasing detection accuracy by 30%.
- Developed a secure, user-friendly web interface with **React** for image uploads, reducing upload time by 40%. Implemented **Flask** to handle API requests and processed images in a secure **Docker** environment with sandboxed containers, enhancing system security.

Projects:

CoviCare: A Secure Vitals Collection and Diagnosis Application Flutter | IoT | Tensor Flow | Firebase | SQLite

- Designed and developed a Raspberry Pi-based embedded device to capture and securely transmit patient vitals to a mobile application. Implemented a CNN and a U-Net-based image segmentation model in the mobile application for Covid-19 diagnosis based on uploaded CT scans.
- Employed machine learning and ANN's to analyze cough sounds and generate a Covid-19 susceptibility score.

SOS: Emergency Car Accident Care System Python | Raspberry Pi | React JS | Java (Android) | Fire store

- Developed a Raspberry Pi-based SOS accident detection and alarm system using a gyroscope, accelerometer, and GPS. Integrated real-time Firestore database to trigger alerts, sent to emergency contacts via a smartphone app.
- Utilized Google Maps API to notify nearby hospitals and police stations, with a GSM module for SMS alerts in areas without internet connectivity.

Publications:

CoviCare: Secure Covid-19 Vitals Diagnosis and Disease Identification Application

18th International Conference on Data Science (ICDATA) 07/2023

Correlations of Rural-Urban Differences in Geographic Healthcare Access Coverage and other Access measures: An Ecological Study of 128 Countries

Consortium of Universities of Global Health (CUGH) 03/2022

Intensive Image Malware Analysis and Least Significant Bit Matching Steganalysis

IEEE International Conference on Big Data 2020 12/2020

Interests: Reading | Cricket | Swimming | Trekking

Languages: English | Hindi | Marathi