BHARATH BHASKAR

+1-857-706-9370 | bhaskar.bh@northeastern.edu | https://www.linkedin.com/in/bharathbhaskar99 | https://github.com/bharathb99

Education

Northeastern University	**Boston**
Masters of Science in Information Systems	Expected Apr 2025

    Coursework   : Network Structures and Cloud Computing, Data Science Engineering, Data Management and Database Design

PES University	**Bangalore, India**
Bachelor of Technology in Electronics and Communications Engineering	Aug 2021

    Coursework   : Digital Signal Processing, Computer Organization, Human-Computer Interaction

Minor Degree in Computer Science Engineering

    Coursework   : Data Structures, Algorithms, Database Management, Operating Systems

    Achievements   : Awarded the "Best Entrepreneurship Idea" (Centre for Innovation and Entrepreneurship Cell)**;**
                     Led the electrical team in Formula Bharat (Formula Student-Style Engineering Design Competition)

Skills

Languages	**:** Python, Java, SQL, JavaScript, HTML, CSS, TypeScript
Libraries/Frameworks	**:** ReactJS, Flask, Django, Spring Boot, Pandas, TensorFlow, PySpark
Databases	**:** MySQL, MongoDB, Oracle SQL, CloudSQL
Tools/Web Frameworks	**:** Docker, Git, Kubernetes, Jenkins, Terraform, GCP, AWS, PowerBI, Tableau

Experience

Mphasis Ltd.	**Bangalore, India**
Software Development Engineer, *Module Lead*	*June 2021 – May 2023*

- Enhanced logistics platform efficiency for **FedEx** by onboarding multiple microservices that perform transport and availability-based calculations based on market rules, reducing deployment time by 25% through the integration of **Docker**, **Jenkins**, **Azure**, and **Kubernetes**
- Implemented new calculations for retailers with varying regulations and real-time batch-processed data, enhancing transport calculations and market rule compliance, directly contributing to a 20% increase in system efficiency
- Led a team to develop an admin module for the logistics platform, improving process automation and retailer connectivity
- Optimized software system memory usage by over 15% through strategic refactoring

Electronics and Radar Development Establishment, Bangalore, India	**Bangalore, India**
Research Intern	*Sep 2020 - March 2021*

- Developed algorithms for electronic counter-countermeasures, **enhancing** RADAR efficiency by 30% through signal processing and countermeasures.
- **Improved** threat detection accuracy by 25% using real-time signal processing and neural network classification

Ecomedz	**Bangalore, India**
Analyst Intern	*August 2019 - August 2020*

- **Increased** customer engagement by 23% by refining product offerings based on feedback from top clients
- Developed dashboards that **predicted** revenue and profit margins with 95% accuracy, leading to better strategic decisions

Projects

Cloud Computing Project
Technologies: GCP, Terraform, Packer - **GitHub Link**

- **Improved system reliability** to 99.95% by architecting a scalable GCP infrastructure, reducing setup errors by 30%
- **Reduced** boot time by 20% through optimized machine images using Packer
- **Enhanced** application performance by implementing auto-scaling policies and load balancers
- Ensured and configured security best practices with IAM policies and encryption
- Integrated a **cloud-based email delivery service**, using Google Cloud **Pub/Sub** and **Cloud Functions**

Event Management System
Technologies: MySQL, Node.js, Python (matplotlib, seaborn, plotly)

- **Optimized data management** by designing a robust database schema, improving operational efficiency by 40%.
- Created dynamic visualizations that improved stakeholder decision-making by 35%

Lung Cancer Prediction
Technologies: Python, Pandas, NumPy, matplotlib, scikit-learn - **GitHub Link**

- **Surpassed** 95% accuracy using **multinomial logistic regression and AutoML** on a dataset of 1,000+ records
- Identified key predictors associated with a 1.5x increase in lung cancer risk among non-smokers

Volunteer

Sri Sathya Sai Premaarpitham Foundation	**Bangalore, India**

- Coordinated the packing and distribution of prepared food to 1000+ needy individuals daily   *Jan 2020 - Feb 2023*
- Managed IT infrastructure, leading to a 50% improvement in operational efficiency.