BHARATH BHASKAR

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

Education

Northeastern University **Boston**
Masters of Science in Information Systems Expected Apr 2025
Coursework : Network Structures and Cloud Computing, Data Science Engineering, High Performance Computing, Program Structures and Algorithms, 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, Angular
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**
- **Reduced operational costs by 15%** and **improved system uptime by 20%** by optimizing transport calculation algorithms and implementing real-time data processing, enhancing the FedEx logistics platform's efficiency.
- Led a team of 5 to develop an admin module, increasing automation by 35% and connectivity by 30%.
- 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% 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 - **GitHub Link**
Technologies: GCP, Terraform, Packer

- Reduced setup errors by **30%** and improved system reliability to **99.95%** by designing scalable GCP infrastructure using Terraform.
- Decreased boot time by **20%** by optimizing machine images with Packer.
- **Integrated cloud-based email service using Google Cloud Pub/Sub and Cloud Functions.**

Product Reviews Analysis - **GitHub Link**
Technologies: Pandas, scikit-learn, Python, NLP, BERT, Machine Learning Models

- Leveraged **BERT-uncased LLM** to extract customer satisfaction scores and employed LDA topic modeling to discern key review topics, enhancing feature integration for precise rating prediction model.
- Identified Pain points for customers based on product types leveraging topic modeling, predicted customer rating by benchmarking ML models with variations; improvised model recall by 22%

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

- **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**
Jan 2020 - Feb 2023

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