Bharath Bhaskar

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Education

Northeastern University — Boston, MA
Master of Science in Information Systems — *Expected Apr 2025*
- Relevant Coursework: Network Structures and Cloud Computing, Data Science Engineering, High Performance Computing, Data Management and Database Design

PES University — Bangalore, India
Bachelor of Technology in Electronics and Communications Engineering — *Aug. 2021*
- Relevant Coursework: Data Structures, Algorithms, Database Management, Operating Systems, DSP
- Achievements: Awarded "Best Entrepreneurship Idea", Formula Bharat (Placed 5th out of 25 teams nation-wide)

Technical Skills

Languages: Python(Pandas, NumPy, scikit-learn), SQL, JavaScript, C++, HTML, CSS, Typescript, Bash
Frameworks: React, Node.js, Flask, Django, Spring Boot, PyTorch, TensorFlow, PySpark, Angular
Developer & Data Tools: Docker, Kubernetes, Jenkins, Terraform, GCP, AWS, Kafka, PowerBI, Tableau, Git, Linux

Experience

Software Development Engineer, Module Lead — June 2021 – May 2023
Mphasis Ltd. — *Bangalore, India*
- Built and optimized data pipelines to support FedEx's logistics platform, leveraging Kafka for real-time data ingestion, along with SQL and Python for processing and analyzing large datasets
- Streamlined deployment and scalability of the data pipeline and backend services by leveraging Docker, Jenkins, Azure, and Kubernetes, resulting in a 25% reduction in deployment time and a 15% decrease in operational costs
- Optimized algorithms for transport calculations and real-time data processing, enhancing efficiency and system performance
- Communicated data insights to stakeholders, using data storytelling to present memory optimization strategies that reduced system memory usage by 15%

Research Intern — Sep. 2020 – Mar. 2021
Electronics and Radar Development Establishment — *Bangalore, India*
- Developed and tested algorithms for real-time data analysis in electronic counter-countermeasures, enhancing RADAR efficiency by 30%.
- Enhanced threat detection accuracy by 25% using real-time signal processing techniques

Analyst Intern — Aug. 2019 – Aug. 2020
Ecomedz — *Bangalore, India*
- Utilized PowerBI to analyze customer data and visualize trends, refining product offerings to increase engagement by 23% through data-driven insights
- Developed dashboards predicting revenue and profit margins with 95% accuracy, guiding strategic decisions

Projects

Cloud Computing Project | *Google Cloud Platform(GCP), Terraform, Packer*| GitHub — *Jan 2024 – April 2024*
- Designed scalable GCP infrastructure using Terraform, reducing setup errors by 30%
- Optimized machine images with Packer, decreasing boot time by 20%

Product Reviews Analysis | *Pandas, Python, NLP, BERT, scikit-learn*| GitHub — *Sep 2023 – Dec 2023*
- Leveraged BERT-uncased LLM to extract customer satisfaction scores, enhancing model precision
- Elevated rating prediction model recall by 22% through LDA topic modeling and benchmarking ML models

Lung Cancer Prediction | *Python, Pandas, NumPy, scikit-learn*| GitHub — *Feb 2024 – April 2024*
- Achieved 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

Distributed Deep Learning for Audio-Based Classification | *PyTorch, Librosa, Dask* — *Sep 2024 – Present*
- Developed a deep learning model using PyTorch to classify bird species from a large-scale audio dataset (26 GB of bird songs), converting audio recordings into spectrograms and applying data augmentation to enhance model generalization.
- Leveraged PyTorch Distributed Data Parallel (DDP) to efficiently train the model across multiple GPUs, significantly reducing training time and optimizing computational resources