

# Nikhil Anil Prakash

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Master's student in Electrical and Computer Engineering at Northeastern University, specializing in Computer Vision, Machine Learning, and Software Engineering. Seeking Full-Time opportunities to leverage expertise in computer vision, machine learning, and software engineering while contributing to challenging real-world problems

## EDUCATION

### Northeastern University, Boston, MA

Dec 2025

Master of Science in Electrical and Computer Engineering - GPA: 3.9

Coursework: Fundamentals of Computer Engineering, Machine Learning and Pattern Recognition, Advanced Machine Learning, Machine Learning Operations

### PES University, Bengaluru, India

May 2023

Bachelor of Technology in Electronics and Communications Engineering - GPA: 3.31

Minor in Computer Science

Coursework: Machine Learning, Artificial Neural Networks, Computer Organization and Digital Design, Embedded Systems, Data Structures, Algorithms

## PROFESSIONAL EXPERIENCE

### IT Intern, Tractor Supply Co.

May 2025 - Aug 2025

- Implemented an end-to-end SEO and performance monitoring system leveraging Python-based ETL pipelines, data preprocessing, and anomaly detection across web crawling operations
- Orchestrated the integration of rule-based and machine learning models to compute health score and detect site-level SEO/performance regressions across 100+ web pages
- Deployed an automated business intelligence reporting framework that generates actionable insights via markdown reports and dashboards, driving visibility into web vitals and metadata compliance

### Intern, Bosch Global Software Technologies Pvt Ltd.

Feb 2023 - May 2023

- Developed inverter software functions for electric vehicles using ASCET and contributed to enhancing system functionality
- Engineered a software module in ASCET to safely switch the vehicle to a safe state upon reaching a specified voltage threshold, testing the code using a remote vehicle simulator
- Facilitated in the comprehensive documentation of ongoing projects, ensuring accuracy and completeness, while collaborating with the team to improve workflow efficiency

### Summer Intern, Bosch Global Software Technologies Pvt Ltd.

Jun 2022 - Jul 2022

- Devised a speed monitoring model using ASCET, leading to a 15% improvement in calibration precision for electric vehicle systems
- Developed a Python-based data analysis interface with statistical analysis capabilities, streamlining the monitoring and calibration process by 30% through improved data processing workflows
- Collaborated with a cross-functional team to standardize components, achieving high compliance with company norms and reducing file generation warnings by 25%

## PROJECTS

### Benchmarking ML Models for Boston's Weekly Weather ([View](#))

Northeastern University

Mar 2025 - Apr 2025

- Engineered and evaluated 4+ machine learning models (Bayesian Regression, Gaussian Process, Bayesian Neural Networks, Decision Tree) for weekly precipitation forecasting using statistical analysis of 7,000+ daily weather records from NOAA data (2005–2024), achieving a 37.9% reduction in RMSE with Decision Trees
- Implemented uncertainty quantification using Laplace Bayesian MLP, achieving 92.75% to 95% CI coverage, the highest among all models, while optimizing Monte Carlo Dropout and variational inference
- Led feature engineering and time series analysis with lagged variables, seasonal indicators, and rolling stats, contributing to a 58% improvement in MAE and 0.41  $R^2$  score using Decision Trees—outperforming all Bayesian counterparts in accuracy

### Indian Premier League (IPL) Score Predictor ([View](#))

Northeastern University

May 2024 - Jun 2024

- Developed a predictive analytics model for IPL match scores utilizing Linear Regression, Decision Trees, AdaBoost, and XGBoost, achieving 82% accuracy across 500+ historical matches spanning 15 seasons
- Improved model performance by 15% via comprehensive data preprocessing and feature engineering in Python, focusing on player statistics and environmental factors
- Collaborated with two peers to refine predictive algorithms and documented the project lifecycle, presenting findings to instructors and peers to demonstrate the practical application of machine learning in sports analytics

## SKILLS

**Programming Languages:** Python, C, C++, R, SQL, System Verilog, JavaScript

**Data & Analytics Tools:** Tableau, MATLAB, A/B Testing, Statistical Analysis, ETL Pipelines, Business Intelligence, SharePoint, Google Cloud Platform (GCP)

**Development Tools:** Linux, Git, ROS, Jupyter, SciPy, React, Docker, Airflow, DVC

**Python Libraries:** NumPy, Pandas, TensorFlow, OpenCV, Scikit-learn, Matplotlib, GTSAM, Open3D, Requests, BeautifulSoup

**Certifications:** [Google Data Analytics](#), [IBM Data Science](#), [Machine Learning Specialization by DeepLearning.AI](#)