

RIDHAM BANSAL

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EDUCATION

Northeastern University

Master of Science in Computer Science

January 2025 - Present

Boston, USA

Bharati Vidyapeeth's College of Engineering

Bachelor of Science in Information Technology

August 2018 - June 2022

New Delhi, India

WORK EXPERIENCE

Cognizant - Software Developer Associate

Shared Investigator Platform Mobile Team

Aug 2022 – Dec 2024

Noida, India

- Implemented AWS Lambda-based backend infrastructure for the SIP mobile app, optimizing API Gateway integration to consistently deliver sub-second REST API response times, reducing latency by **35%**.
- Proactively identified and resolved application defects through advanced monitoring with AWS CloudWatch, conducting comprehensive PoCs on AWS services improve system reliability significantly.
- Collaborated cross-functionally with the RMO team to automate deployment processes across higher environments, streamlining the development pipeline and reducing time to market by **30%**.

Shared Investigator Platform Database Team

- Developed and optimized database procedures, functions, and triggers to align with evolving business requirements, ensuring a **25%** increase in data processing efficiency.
- Streamlined collaboration with service and portal teams to design and modify the database schemas, ensuring seamless integration and a **20%** faster project turnaround.

Neem Tree Agro Sol - Machine Learning Engineer Intern

Predictive AI Team

July 2021 – August 2021

New Delhi, India

- Studied multiple factors that affect the sustainable demand-supply economics of crops grown in India
- Developed a Machine Learning Predictive Model using above factors to estimate a fair competitive price of crops across the physical landscape and different time horizons
- The model outputs were used to provide farmers with better farming decisions to obtain an estimated **17%** YoY profit growth for them

PROJECTS

Human Activity Recognition with Smartphone Data | B.Tech Project 2022

- Used ML models to predict human activity (walking, running, sleeping among others) based on acceleration and gyroscopic data received from mobile phone
- Analysed the data profile to create appropriate low pass filters to clean body acceleration data from gravity
- Tried and tested models like Random Forest, Linear and Non-Linear SVMs and ANN
- Concluded that ANN performs best and hence, did appropriate hyperparameter tuning to obtain **87%** accuracy

CERTIFICATIONS

Advanced Data Structures - Coding Ninjas | Segment Tree, Fenwick Tree, Sparse Table, Graphs

Full Stack Web Development - Coding Ninjas | MongoDB, ReactJS, ExpressJS, NodeJS

SKILLS

Languages: Java, Typescript, JavaScript, Python

Frameworks: Maven, Gradle, Spring Boot, NestJS

Libraries: Pandas, Numpy, Matplotlib, Scikitlearn, TensorFlow, Keras

Databases: MySQL, MongoDB, OracleDB

Cloud Tools: AWS