

# ANKIT RAJ

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## Experience

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### Executive - Software Development

December 2024 – Present

BSES Rajdhani Power Limited

New Delhi, Delhi

- Automatic Meter Reading (AMR) System
  - Designed **HLD and LLD** for the AMR system, streamlining data collection and reporting for accounting of the energy of thousands of supply lines across Delhi.
  - Developed and Integrated **IoT-based smart meters** with a robust **.NET Core 8** application to automate real-time energy data collection from 2000+ grid meters at 15-minute intervals, featuring advanced error-handling mechanisms scalable for adding further meters easily.
  - Arranged efficient data storage solutions using Oracle DB, ensuring secure and reliable data management.
  - Streamlined deployment with a **Git** hook to zip builds in Oracle DB and a scheduler for efficient, in-house updates.
  - Developed a scalable reporting system for actionable insights, reducing manual effort by 50%.

### Graduate Engineer Trainee - Software Development

December 2023 – December 2024

BSES Rajdhani Power Limited

New Delhi, Delhi

- API revamping
  - Successfully converted 20+ SOAP APIs into RESTful services using **Java SpringBoot** and **NodeJS**, leading to a 24% increase in data processing speed.
  - Engineered **JWT authentication** in 100+ APIs along with silent refresh token.
- HR - Vendor Management System
  - Pioneered a significant **reduction of up to 40% in loading time** by optimizing components and effectively.
  - Integrated **responsive design principles** & tuned it to work for all standard screen-sizes, reducing bugs by 35%.
  - Innovated **AWS** based OCR ETL system for automatic extraction of pdf files into raw data in OracleDB.

## Education

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### Delhi Technological University (Formerly DCE)

Aug. 2019 – Nov 2023

Bachelor of Technology in Computer Science

New Delhi, Delhi

## Projects

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### Team Codes - Live Collaborative Code Editor — Jscript, React.js, Node.js, Express.js, MongoDB, SocketIO 🐙

- Designed a real-time code collaboration platform, achieving a 20% improvement in response time for instant updates and synchronization across files.
- Orchestrated integrating 15+ language support and using ReactJs, Node.js, Express.js, MongoDB, and Socket.io, supporting up to 100+ users.

### Customer Segmentation for Mall Sales Optimization — Python, K-Means, Scikit-learn, Pandas, Numpy

- Created a custom K-Means clustering algorithm to segment customers based on purchasing behavior and demographics.
- Optimized K-Means from scratch, reducing processing time by 15% while maintaining high accuracy.
- Generated insights for targeted sales strategies, potentially increasing sales by 25% through personalized marketing.

## Technical Skills

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**Languages:** C++, JavaScript, Python, HTML, CSS, SQL, C#, Java

**Frontend Technologies:** React.Js, React.Js, HTML5, CSS3

**Backend Technologies:** Node.js, ASP.NET Core, ASP.NET MVC, ASP.NET WebAPI, RESTful APIs, Tensorflow, Sci-kit, Numpy, OpenCv, Pandas

**Databases:** MongoDB, PostgreSQL, Oracle Database

**Version Control and Others:** Git, OAuth, JWT, Machine Learning, Computer Vision

## Achievements

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- Achieved Rank 2639 in JEE MAINS among 12 Lakhs+ students in 2020.
- Consolidated 10th rank in uPGad's Frontend Hackathon Nov 2023 among 1000+ participants in Individual Category.