

# Arpit Khare

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## AI/ML Engineer | Data Scientist

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Full Stack Developer with around 3 years of experience in designing and developing scalable applications using Python, JavaScript, React, and Node.js. Strong foundation in Machine Learning (ML) and AI, including Natural Language Processing (NLP), Deep Learning, and MLOps. Proven ability to integrate AI models into production systems, optimize performance, and deploy ML models using Docker, Kubernetes, and AWS SageMaker. Passionate about leveraging AI to build intelligent applications.

## Experience

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**Full Stack Developer**, Reliance Jio – Navi Mumbai, Maharashtra July 2023 - Now

- Developed an ML-powered Breach Attack Simulation Tool to automate red team tasks, using anomaly detection with **Scikit-Learn**, NLP-based log analysis with **BERT**, and **Flask-React** for the user interface.
- Developed a Mobile Device Manager- MDM (Android) to manage Reliance Retail Stores POS Devices using **Java** and **Node.js & React**.
- Migrated MDM Mobile APIs from **.Net** to **Flask** resulting in significant performance improvements.
- Managed **SQL Database Migration** as a part of new business onboarding.
- Deployed the MDM solution for **RCP Campus Security**, optimizing employee attendance tracking.
- Developed a Cybersecurity Policy Awareness Chatbot using **Langchain** and **NLP**, trained on organizational security policies to provide instant policy-related information.

**Software Engineer Intern**, AMD – Hyderabad, Telangana June 2022 - May 2023

- Developed 60+ Automation Scripts in **Python** and **Selenium** to extract product reviews from different community forums.
- Developed around 20 **ETL** scripts as a part of **Data Engineering** activities using **Python** and **SQL**.
- Performed **Sentiment Analysis** on AMD, Intel and Nvidia Products using **Tensorflow** and **Bert**.
- Built the Social Media Coverage Dashboard for AMD in **PowerBI**.
- Developed Email Alert Automation for failing ETL scripts using **Python** and **Microsoft Graph API**.

**Research Intern**, IIT – Roorkee, Uttarakhand April 2020 - June 2020

- Developed an **Automatic Linguistic Summarizer** for clustering results using **Python** and **Matplotlib**.

## Education

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**NIT Jamshedpur**, M.Tech. in Computer Science and Engineering August 2021 - June 2023

- GPA: 8.5/10
- Developed the Waste Management Analytics Dashboard using **Sentiment Analysis**, **Python** and **React**.
- **Coursework**: Machine Learning, DBMS and Data Structures

## Technologies

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**Languages**: JavaScript, Python, SQL, HTML, CSS, Java

**Technologies**: Node.js, React, Flask, Microsoft SQL Server, Rest API, Git, IIS, Selenium, Tensorflow, Hugging Face, Llama, Microservices Architecture, NLP, GCP, MongoDB, Docker, Express.js, CI/CD, FastAPI.

**AI and Machine Learning**: Node.js, React, Flask, Microsoft SQL Server, Rest API, Git, IIS, Selenium, Tensorflow, Hugging Face, Llama, Microservices Architecture, NLP, GCP, MongoDB, Docker, Express.js, CI/CD, FastAPI.

## Projects

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### Learning Management System

- A Udemy-like portal where teachers can sell their video courses and students can attend lessons.
- Tools Used: Flask, React, Postgresql, Linux, Docker, Nginx, Github, Github Actions, CI/CD

### Cricket GPT

- An LLM-powered chatbot designed to serve as an assistant for comprehending and analyzing cricket match summaries.
- Tools Used: Python, LLM, React, OpenAI

## Publications

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- Sentiment Analysis & Sarcasm Detection of Loksabha Election Tweets -2014** 2021  
International Conference on **Advanced Network Technologies and Intelligent Computing** (ANTIC-2021)  
*Arpit Khare*, Sudhakar Singh, et al.
- Email Assistant: Automation of E-Mail Handling & Management using Robotics Process Automation** 2022  
International Conference on **Decision Aid Sciences & Applications** (DASA)  
*Arpit Khare*, Sudhakar Singh, et al.
- Linguistic Protoform Based Summarization of Clustering Results** 2022  
International Conference on **Electrical, Computer, Communications and Mechatronics Engineering** (ICECCME)  
*Arpit Khare*, Dheeraj Kumar, et al.