

# Apoorva Dave

Technical Lead

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## Experience

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### **Arcesium**

*Bengaluru, India*

Technical Lead

*Jan, 2022 – Present*

- Working on adding support for multiple prices in our profit and loss computing engine.
- Actively involved in mentoring and guiding new folks in the team.

Senior Software Engineer

*July, 2020 – Dec, 2022*

- Worked on developing a new module which implements the finance logic around account balance components and computes them in real time.
- Implemented a python script to perform Prod/UAT refreshes which significantly reduced the manual effort involved in loading data into the clients.
- Handled timezone differences in the product.

### **Qualcomm**

*Hyderabad, India*

Engineer, Machine Learning Group

*March, 2019 – June, 2020*

- Worked on Snapdragon Neural Processing Engine. SNPE is an inference engine which efficiently executes deep neural networks using dedicated hardware accelerators.
- Developing Qualcomm's Modelzoo – One stop shop for all the models supported in different frameworks, metadata and pre-processing script for each network.
- Worked on Random Graph Generator (RGG) that randomly generates graphs using parameters like number and types of layers.

### **UnitedHealth Group**

*Hyderabad, India*

Software Engineer, OGS

*July, 2017 – March, 2019*

- Built an automation tool in python for parsing scanned PDFs using OCR technique.
- Developed a machine learning classification model to classify claims as rework claims or not.
- Constructed a predictor model to predict which all physicians or facilities need to submit attestation to the organisation.

### **UnitedHealth Group**

*Hyderabad, India*

Software Engineering Intern, BPM Division

*May, 2016– July, 2016*

- JBoss BPM Assessment: R&D work on JBoss BPM Tool.
- Explored features of JBPM tool and developed an application for R&R workflow.

## Education

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### **National Institute of Technology, Raipur**

Bachelor of Technology, Computer Science and Engineering  
CPI – 9.59

*Raipur, India*

*2013–2017*

### **Holy Cross Kapa Senior Secondary School**

12<sup>th</sup> Grade - 91.4% (PCM, CBSE)

*Raipur, India*

*2013*

### **St. Xavier's High School**

10<sup>th</sup> Grade - 94.4% (ICSE)

*Raipur, India*

*2011*

## Projects

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### **Movie Browser using React Native**

Developed a react native application that allows users to search for movies included in the Open Movie Database and view additional information about any movies they select.

<https://github.com/apoorva-dave/Movie-Browser-React-Native>

### **Pomodoro Timer**

Created a timer implementing Pomodoro technique using react native. It allows users to set the timer based on their needs, and alert the user on break and work intervals by vibrating.

<https://github.com/apoorva-dave/Pomodoro-Timer>

### **Demonetization: Sentiment and Retweet Analysis**

Published paper titled "Demonetization: Sentiment and Retweet Analysis" in IEEE Explore Conference and presented at the International Conference on Inventive Computing and Informatics organized by Ranganathan Engineering College (REC) on 23-24 November, 2017 at Coimbatore, Tamil Nadu, India. This project aims to analyze the sentiments and retweets on Demonetization based on time and location (<https://ieeexplore.ieee.org/document/8365265/>).

### **License Plate Detector**

This project aims in detecting and locating the license plate in a car image/video. Once detected the characters of the plate are recognized and predicted using trained Machine Learning model.

<https://github.com/apoorva-dave/LicensePlateDetector> This was also deployed using Flask API.

## Skills

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<b>Programming</b>	Java, Kotlin, C++, Python, SQL
<b>Database</b>	RocksDB, MySQL, MongoDB
<b>Operating Systems</b>	Ubuntu, Windows
<b>Infrastructure</b>	Kubernetes, Kafka, AWS

## Extra-Curricular

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- Online Test Preparation Portal (GeeksBuddy) - Portal to provide users with an easy, simple and efficient platform to prepare for Aptitude and Coding.
- Worked efficiently as Executive member of Entrepreneurship Cell.
- Selected in MITACS Globalink Research Internship Canada in 2016.
- Third rank holder in college during my Bachelor's degree.