

# Shubham Mishra

SOFTWARE ENGINEER

Driven Software Engineer with a wealth of knowledge in creating and improving features for various applications. Competent with front-end and Back-end technologies and adept at designing UIs that are both responsive and easy to use. Devoted to providing creative solutions and code of the highest caliber.

## TECHNICAL SKILLS

### Frontend:

JavaScript • HTML 5 • ReactJS •  
Typescript • Angular • CSS3

### Backend:

Python • Flask • Java • System  
Design(LLD &HLD) •Rest API •SQL

### Additional Skills:

Machine Learning (ML) • Artificial  
Intelligence (AI)

## EDUCATION

**M.E. – Computer Science (GPA: 8:3)**  
BITS Pilani | 2022

**B.E. – Computer Science (64%)**  
RGPV | 2018

## ACHIEVEMENTS

Achieved 99<sup>th</sup> percentile score in  
GATE 2020 exam, securing AIR of  
782

## FUNCTIONAL SKILLS

Algorithms and Data Structures  
Software Development Lifecycle  
Project Management  
API Integration  
Requirement Gathering  
Problem-solving  
Testing and Quality Assurance  
Database Management  
Team Coordination

## CERTIFICATION

Certification in DeepLearning.AI  
Circle CI Associate Developer

## EXPERIENCE

**Cisco, Bengaluru • Jan 2022 – Present**  
**SOFTWARE ENGINEER**

(Aug 2022 – Present)

- Develop and maintain front end of CX Cloud using Angular; create 20+ web pages within CX Cloud application
- Performed performance analysis of web pages, including Web Core Vitals such as Largest Contentful Paint (LCP) and First Contentful Paint (FCP), as well as API response times. Integrated frontend components with backend services for effective data exchange, employing various optimization techniques to ensure seamless communication and reduce data load times by 30%.
- Refactored legacy code by moving from NGRX to Component Store, which eliminated over 30 extra files and libraries, resulting in a 24% reduction in lines of code and improved logic of implementation.
- Utilize Cypress for end-to-end testing and conduct unit testing with a coverage of over 96%, ensuring feature reliability and functionality.
- Contribute to server-side development using Java, including API creation and backend logic.
- Demonstrate expertise in HTML and CSS; creating over 20 responsive and visually appealing web page development.
- Review and provide feedback on 50+ pull requests to uphold coding standards and optimize code efficiency.

### KEY INITIATIVE:

#### Machine Learning on CX Dashboard

- Developed and deployed ML model using Support Vector Regression (SVR) to predict system component faults for next 30 days.
- Enhanced prediction accuracy by applying feature extraction techniques.
- Applied data visualization with Matplotlib and Seaborn to track and analyze fault trends.
- Achieved 98% R<sup>2</sup> value, projecting high forecast accuracy due to data's linear nature.
- Integrated model with Flask backend and Angular frontend for real-time fault prediction and display.

### INTERN

(Jan 2022 – Jul 2022)

- Designed and implemented support bot to streamline Cisco licensing queries and resolution.
- Scripted core functionalities in Python; implemented webhook for seamless API interaction, enabling real-time data retrieval.
- Developed a dedicated website to host bot for seamless and open platform for obtaining licensing support.

## PUBLICATIONS

### **Paper Publication on Machine Learning (ML), BITS Pilani**

- Led sentiment analysis project on IMDb movie reviews, exploring feature extraction and selection techniques with ML models including SVM, Logistic Regression, Random Forest, Naive Bayes, Decision Trees, and XGBoost.
- Evaluated feature extraction methods like Count Vectorization, TF-IDF, and Word2Vec.
- Compared models based on accuracy, F1 score, and execution time.
- Achieved 90% accuracy using TF-IDF vectorization, Chi2 feature selection, and SVM, with feature selection reducing training time while maintaining performance metrics.