

Akanksh Belchada

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EDUCATION

University of Texas at Dallas, TX

Master's of Science in Computer Science

Coursework: Machine Learning, Database Design, Discrete Structures, Data Structures, Big Data Systems

Aug 2021 – May 2023

GPA: 3.44/4

University of Pune, India

Bachelor of Engineering in Electronics and Telecommunication

- Best Outstanding Student(2019), Department of E&TC

Aug 2015 – May 2019

GPA: 8.87/10

TECHNICAL SKILLS

Language and Databases: Python, Java, C#, HTML/CSS, JavaScript, MySQL

Developer Tools: Git, HP ALM, VS Code, Eclipse, Anaconda, Jupyter Notebook, Google Colab, PyCharm

Frameworks/Libraries: Java Swing, WinForms, Selenium, Jenkins, BDD Specflow, Python Flask, Pandas, Numpy, Sklearn, Matplotlib

EXPERIENCE

System Engineer | Infosys Ltd., Pune, India

Aug 2019 – Aug 2021

- Designed and developed Java utilities for a cross platform investor migration project for an Australian Banking Corporation.
- Delivered crucial solutions for automating database driven Mainframe and Web applications which successfully helped in migrating 150k clients from legacy to a new platform.
- Performed SIT and regression testing and collaborated with cross functional teams to identify and resolve migration issues.
- Explored ways of automating EOD jobs which improved productivity twofold and achieved seemingly impossible sprint goals.

SCADA Intern | Tata Power Company Ltd., Mumbai, India

Jan 2019 – Feb 2019

- Simplified troubleshooting efforts for SCADA engineers by developing an 'Institutional SCADA Expert System' for accessing diagnostics and resolution steps for various operational issues and deployed it on the organization's intranet.

Graduate Teaching Assistant | University of Texas at Dallas

Sep 2021 – Present

- Conduct office hours, mentor project work and grade assignments for CS4347-Database Systems, CS3354-Software Engineering.

PROJECTS

CoWin Vaccine Slot Availability Chatbot Service | Python Flask, Twilio, MySQL, ReportLab, ngrok

May 2021

- Developed a push based model to notify users about zipcode/age group wise available vaccination slots through a WhatsApp chatbot using PyFlask, Twilio.
- Leveraged CoWin's public APIs by using cron job scheduler to maintain api calls within the government limits.
- Queued concurrent requests and served them when a suitable slot is found available.
- Report lab utility to provide elaborate details of the vaccination centers available to the end user.

Autonomous Fire Combat Turret | Image Processing, Classification, Adaboost Training, Robotics, Raspberry Pi

Aug 2018-March 2019

- Developed a Haar cascade classifier based system which provides an immediate response to fire breakouts by actuating a ceiling mounted dual axis turret robot.
- Achieved seamless fire detection and effectively deployed an extinguishing agent by locating the co-ordinates of the target fire.
- Developed a GUI for remotely controlling the turret to deploy the extinguishing agent using a track pad and toggle the system to function autonomously or in a remotely operable mode.

Netflix Prize: Movie Recommendation System | Python, Machine Learning, FAISS, Collaborative Filtering

Sep 2021-Oct 2021

- Implemented a ground up Collaborative Filtering model with Facebook AI Similarity Search/ KNN algorithms to achieve an rmse of 0.96 while working with ~ 3.2 million data points and 100k test users.

Python Flask based Micro-blogging Web app | Python Flask, MySQL, NginX

Sep 2019-Oct 2019

- Developed a full-stack web application which can host blogs posted by different users.
- Used SQL for storing/fetching records and used Bcrypt to enforce encryption on passwords stored.
- Used Unicorn as a gateway server / NginX to act as a load-balancer for a scalable performance.

Twitter Sentiment Analysis | Python, Nearest Neighbors, Support Vector Machine, TF-IDF, NLTK

Dec 2017-Feb 2018

- Developed a Sentiment Analysis Algorithm for analyzing tweets based on words and hashtags by classifying them as positive or negative using Natural Language Processing and Machine learning concepts.

LEADERSHIP / EXTRACURRICULAR

General Secretary | Sinhgad Student Council, Sinhgad College of Engineering

Aug 2017-Aug 2018

Quizmaster | Quizdom, SCOE

Aug 2017-March 2021

Volunteer | SOFTEN, Infosys Social Outreach Initiative

Sep 2019-Dec 2019