# ANSHUL CHAHAR

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## SKILLS

**BACKEND DEVELOPMENT:** PYTHON, JAVA, C/C++ NODEJS, NEXTJS, POSTGRESQL, MONGODB
**FRONTEND DEVELOPMENT:** TS/JS, REACT, HTML, CSS, TAILWIND
**DATA ANALYSIS AND ML LIBRARIES:** PYTORCH, NUMPY, PANDAS, MATPLOTLIB, SCIKIT-LEARN
**MISCELLANEOUS:** CI/CD PIPELINES, DOCKER, GIT
**SOFT SKILLS:** TEAM PLAYER, BIAS FOR ACTION, DELIVER RESULTS

## WORK EXPERIENCE

**BACHELOR PRAKTIKUM (TU DARMSTADT, ATOMS - PHOTONS - QUANTA) 01.10/2021 - 21.03/2025
(**HTTPS://GITHUB.COM/TU-DARMSTADT-APQ/KRAKEN_WEBUI**)**

- DEVELOPED AN INTERFACE TO HANDLE SENSOR CONFIGURATION OF QUANTUM SENSORS, NOW DEPLOYED FOR RESEARCHERS.
- DESIGNED SCHEMAS FOR VALIDATING SENSOR DATA.
- SET UP GITHUB ACTIONS CI PIPELINE FOR LINTING, TESTING, BUILDING & STORING DOCKER IMAGE IN REGISTRY.
- DEFINED API ENDPOINTS FOR UPSERTING SENSOR INFORMATION IN THE DATABASE.
- TESTED SCHEMA VALIDATION & UPSERT FUNCTION.
- WROTE TESTS FOR VARIOUS FUNCTIONS.
- HELPED IN CHATBOT DEVELOPMENT.
- IMPLEMENTED CI/CD PIPELINES.
- WORKED IN AN AGILE DEVELOPMENT ENVIRONMENT.

**CODE VARIAC | PYTHON, FLASK, CI/CD.**                    **02.09.2020 - 25.11.2020**

- WROTE TESTS FOR VARIOUS FUNCTIONS
- HELPED IN CHAT BOT DEVELOPMENT
- CI/CD

## PROJECTS

**PROJECT FOR ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING LAB-TU DARMSTADT | DARMSTADT, GERMANY**                    **01.10.2024 - 31.03.2025**

- IMPLEMENTED SPACE + MOC ATARI GAMES FOR OBJECT DETECTION, ACHIEVING IMPROVED EVALUATION.
- ADDED FUNCTIONALITY TO DRAW BOUNDING BOXES ON OBJECTS IN ATARI GAMES.
- ADDED FUNCTIONS TO DRAW PREDICTED BOUNDING BOXES WITH GROUND TRUTH BOUNDING BOXES SIDE-BY-SIDE.
- ADDED CODE TO EVALUATE & COMPARE SUPERVISED & UNSUPERVISED CLASSIFIERS (RIDGE) (K-MEANS & X-MEANS) ON F1 SCORE, ACCURACY, RECALL & PRECISION.
- ADDED FUNCTIONS TO ADD COLORED & LABELLED BOUNDING BOXES FOR DIFFERENT CLASSES OF OBJECTS BASED ON CLASSIFIER OUTPUT.

**PRIVATE PROJECT: SOLVAAI**                    **12.01.2025 - Present**
**(***HTTPS://GITHUB.COM/ANSHULCHAHAR/SOLVA***)**

- DEVELOPED SOLVA, A DOCUMENT ANALYSIS APPLICATION USING THE REACT AND NEXTJS.
- IMPLEMENTED AI-POWERED DOCUMENT PROCESSING BY INTEGRATING GOOGLE'S GEMINI API.

- DESIGNED AND BUILT A RESPONSIVE WEB INTERFACE FOR DOCUMENT UPLOAD, ANALYSIS, AND RESULTS VISUALIZATION.
- CREATED A SECURE AUTHENTICATION SYSTEM WITH OAUTH 2.0 INTEGRATION (GOOGLE SIGN-IN).
- ENGINEERED DATABASE ARCHITECTURE USING SQLITE FOR EFFICIENT DOCUMENT AND USER DATA MANAGEMENT.
- APPLIED INDUSTRY BEST PRACTICES FOR SECURITY, INCLUDING ENVIRONMENT VARIABLE CONFIGURATION AND API KEY MANAGEMENT.
- CURRENTLY I AM IMPLEMENTING RAG IN THIS APPLICATION

## EDUCATION

**TU DARMSTADT** | DARMSTADT, GERMANY
B.SC. INFORMATIK **10/2021 - PRESENT**

**AMITY UNIVERSITY** | NOIDA, INDIA
B.TECH - COMPUTER SCIENCE & ENGINEERING (2 SEMESTERS) | (8.6 CGPA) **30/04/2019 – 30/04/2020**

**G.D. GOENKA PUBLIC SCHOOL** | AGRA, INDIA
PHYSIC, CHEMISTRY, MATHEMATICS, ENGLISH, PHYSICAL EDUCATION | (95%) **31/03/2018 – 31/03/2019**

## COURSEWORK

DATA STRUCTURES AND ALGORITHM , DATA MINING AND MACHINE LEARNING, APPLIED STATISTICS, LINEAR ALGEBRA, INTEGRALS & DIFFERENTIAL EQUATIONS, COMPUTER NETWORKS, OPERATING SYSTEMS

## INTERESTS

TRAVELLING, FITNESS, VOLLEYBALL