# ANSH SINGHAL
## AI/ML ENGINEER

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## SUMMARY

- Proficient in **Python, C++, and Java**, with strong expertise in **Data Structures and Algorithms** to design efficient and scalable solutions, complemented by experience in **backend development** and **database management**.
- Experienced in applying **Artificial Intelligence (AI)** and **Machine Learning (ML)** techniques to solve real-world problems and developing data-driven solutions.
- Skilled in **debugging, problem-solving**, and **collaborative development** in dynamic team environments.

## SKILLS

- **Programming Languages:** Python, Java, C++, JavaScript
- **Machine Learning:** Scikit-learn, TensorFlow, Keras, PyTorch, Numpy, MatplotLib, Pandas, HuggingFace Transformers, OpenCV, CNNs, RNNs, GANs
- **Web Development**: HTML5, CSS3, JavaScript, React, Next, Bootstrap, Spring Boot
- **Databases**: MySQL, MongoDB
- **Others**: GitHub, Flask, FastAPI, Google Cloud Platform (GCP)

## PROJECTS

**DHARA** ↗ | TF-IDF, Hugging Face Transformers, TensorFlow, BERT, LlamaIndex

AI-powered legal research engine to streamline judicial workflows by providing contextual insights, case summaries, and legal recommendations.

- **Designed** a **BERT-based NLP pipeline** for semantic search, integrating **TF-IDF** for hybrid retrieval, reducing manual legal research time.
- **Leveraged LlamaIndex** to create a multi-layered indexing system, enabling efficient storage and retrieval of legal documents with query-based contextual insights.
- **Built** a modular API platform using **FastAPI**, enabling seamless integration of case summarization, contextual retrieval, and legal predictions into existing workflows.

**Talent Insider** ↗ | Java, Spring Boot, MySQL, JDBC, Java Swing, Servlets, Maven

Developed Talent Insider, a full-stack platform connecting companies and job seekers, integrating features for job posting, candidate management, and recruitment analytics.

- **Implemented** a dynamic **job and user management system** with **Spring Boot** and **MySQL**, ensuring real-time data updates and seamless **CRUD** operations.
- **Designed** and developed modular **Servlet-based REST APIs,** enabling robust communication between the platform's backend and frontend.
- **Developed** a secure multi-tier authentication mechanism with **bcrypt hashing**, enhancing data security for user credentials.

## EDUCATION

**Bachelor of Technology, Computer Science**                              **Aug 2023 - May 2027**
Bennett University - **9.65** CGPA and **10** SGPA

## COMMUNITY WORK

**Member of the Board of Advisors**                              **Jul 2023 - June 2024**
Rotary International, USA, Youth Advisory Council

- **Collaborated** with a team of leaders to shape the future of **Rotary's youth exchange programs** while maintaining **strong communication** and **collaboration** with other members and staff.
- **Selected as the only member from Asia** based on proven leadership in Rotary and its programs, contributing valuable experience and knowledge to guide future youth exchange initiatives.

## ACHIEVEMENTS

- Rank **6** in BU Smart India Hackathon
- Rank **1** in International English Olympiad and International Science Olympiad
- State Level **Debate Winner**
- National Science Exhibition **Winner**