

# Ishan Bansal

## Intern Aspiring Engineer

### SUMMARY

Expertise in Python, SQL, and ML web applications with a focus on practical applications in fields like AI and computer vision. Proven track record in AI with projects at DeepLogic AI, including creating an ML Web app for classifying blastocyst embryos and implementing LLM for in-house document processing. Further experience includes feature extraction via PySpark at Tata Digital, and exploiting BERT for NLP tasks at Concentrix. Academically grounded with a Master's in CS from Columbia University and a BTech in Math/CS from Delhi University. Holds AWS accreditations, demonstrating proficiency in cloud architectures, EC2, S3, and RDS. Skilled in end-to-end software development, including full-stack abilities shown at Datacultr with Django and PostgreSQL.

### TECHNICAL SKILLS

<b>Main Technical Skills</b>	Python, Data Science, SQL
<b>Programming Languages</b>	Python
<b>AI &amp; Machine Learning</b>	AWS ML (Amazon Machine learning services), NLP
<b>Python Frameworks</b>	Django REST framework
<b>Python Libraries and Tools</b>	PySpark
<b>Data Analysis and Visualization Technologies</b>	Presto S3
<b>Databases &amp; Management Systems / ORM</b>	PostgreSQL, SQL
<b>Amazon Web Services</b>	AWS EC2, AWS Lambda, AWS ML (Amazon Machine learning services)
<b>Google Cloud Platform</b>	GCE
<b>Virtualization, Containers and Orchestration</b>	Docker
<b>Message/Queue/Task Brokers</b>	Kafka
<b>BlockChain and Decentralized Software</b>	NFT
<b>Other Technical Skills</b>	Flink, General network knowledge, RDS

## WORK EXPERIENCE

### AI Engineer Intern, Blastocyst Embryo Classification & Document Processing

**Duration:** February 2024 - July 2024

**Summary:**

- Developed an AI model to classify blastocyst embryo images and predict development stages for IVF processes
- Created an LLM-based document processing pipeline

**Responsibilities:** Building machine learning web applications, conducting temporal analysis on embryo development, establishing document processing systems with reduced processing times, and documenting guides and setups for clients.

**Technologies:** Machine Learning, LLM, Documentation

### Intern, Data Architecture Migration

**Duration:** June 2023 - July 2023

**Summary:** Extracted features from large datasets and participated in the migration of the company's architecture to new data processing technologies.

**Responsibilities:** Feature extraction with SQL in PySpark and processing Kafka Streams in Flink using Docker.

**Technologies:** SQL, PySpark, Kafka Streams, Flink, Docker

### Intern, Profanity Detection AI Model

**Duration:** July 2022 - October 2022

**Summary:** Leveraged artificial intelligence models for profanity detection in Natural Language Processing within Cognitive Customer Engagement.

**Responsibilities:** Developing AI models to detect and mask profane language using BERT technology.

**Technologies:** Natural Language Processing, BERT

### Computer Vision Developer, Face Detection and Recognition Module

**Duration:** May 2022 - July 2022

**Summary:** Implemented a face recognition feature for AiView's Computer Vision solutions, and collaborated on UI elements for AiView's Voice Assistant.

**Responsibilities:** Lead development on facial detection and recognition, database management for face logs, and UI brainstorming.

**Technologies:** Computer Vision, UI/UX Design, CSV

### AWS Cloud Intern, AWS Cloud Architecture and Case Studies

**Duration:** September 2021 - December 2021

**Summary:** Attained cloud expertise and designed architectures involving AWS services during the internship.



**Responsibilities:** Gained AWS accreditations, designed cloud architectures, prepared reports, and worked on case studies implementation.

**Technologies:** AWS (EC2, S3, Lambda, RDS), Cloud Architecture

### **Software Developer, E-Commerce Website Deployment**

**Duration:** June 2021 - August 2021

**Summary:** Deployed a full-stack E-commerce platform with an emphasis on database connectivity and data management.

**Responsibilities:** Full-stack website development, backend integration with PostgreSQL, and data debugging for company usage.

**Technologies:** Django, PostgreSQL, Full-stack Development, Data Management

## **EDUCATION**

- **Master of Science - MS, Computer Science**
- August 2024 - December 2025
- **Bachelor of Technology - BTech, Mathematics and Computer Science**
- November 2020 - July 2024

## **CERTIFICATION**

- **AWS Partner: Accreditation (Technical)**
- **Programming in Mathematica**
- **AWS Partner: Cloud Economics Accreditation**
- **Python (Basic) Certificate**
- **AWS Partner: Accreditation (Business)**

