

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

Main Technical Skills	Python, Data Science, SQL
Programming Languages	Python
AI & Machine Learning	AWS ML (Amazon Machine learning services), NLP
Python Frameworks	Django REST framework
Python Libraries and Tools	PySpark
Data Analysis and Visualization Technologies	Presto S3
Databases & Management Systems / ORM	PostgreSQL, SQL
Amazon Web Services	AWS EC2, AWS Lambda, AWS ML (Amazon Machine learning services)
Google Cloud Platform	GCE
Virtualization, Containers and Orchestration	Docker, GCE
Message/Queue/Task Brokers	Kafka

BlockChain and Decentralized Software	NFT
Other Technical Skills	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)**

