

# ARNAV KUMAR

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## SUMMARY

Python developer with a background in computer science and a strong foundation in data analysis and software development. Experienced in building backend systems, analyzing datasets, and developing tools that support decision-making and process improvement. Comfortable working with structured data, writing clean and maintainable code, and contributing to projects that require both technical precision and analytical thinking.

## INTERNSHIP EXPERIENCE

### Prudence Consulting - Technical Trainee (Microsoft Dynamics)

- Streamlined workflows in Microsoft Dynamics 365 Business Central, reducing manual steps for monthly financial reports by 10%
- Optimized 8+ SQL queries for data extraction, cutting average report generation time from 3 minutes to 2 minutes
- Improved database performance by tuning indexing strategies for high-traffic tables, reducing query latency by 10%
- Applied ERP reporting techniques to analyze sales data, supporting a team of 4 analysts in generating actionable insights

## PROJECTS

### AI/ML-Based Transaction Fraud Detection using MongoDB & Flask

- Built and deployed a web app powered by AI/ML to detect fraudulent financial transactions
- Trained ensemble models (DNN, XGBoost, Random Forest, Logistic Regression) on real-world transaction data
- Implemented SHAP analysis for model explainability and insights into fraud patterns
- Developed and deployed a secure Flask-based web app with MongoDB authentication using Render

### Chatbot based on GPT (Group Project)

- Developed an intelligent chatbot using OpenAI GPT APIs, designed for various business domains
- Fine-tuned the model with custom datasets, improving contextual accuracy
- Applied intent recognition and prompt engineering, boosting response relevance

### Homecare Services Website - EasyCare (Group Project)

- Designed and developed a Web application with optimized color scheme, increasing viewer retention for finding PGs, rental apartments, and domestic helpers
- Implemented clean modular codebase ensuring long-term maintainability and scalability
- Created user-friendly interface improving navigation speed and access to listings

## EDUCATION

**Bachelor of Technology in Computer Science Engineering** Chandigarh University (2025)  
**Intermediate (non-Med) 85.8% (CBSE)** Dikshant International School (2021)

## CERTIFICATIONS

- Internet of Things**, NPTEL (2023)
- Probability and Statistics**, NPTEL
- Fundamentals of Data Networking**, Infosys Springboard
- Data Visualization with Tableau**, Coursera

## SKILLS

### Programming Languages:

- Python (primary, extensive project experience)
- Java (secondary, familiar with DSA concepts)
- C++ (basic, academic/competitive programming)
- JavaScript (basic, web development projects)

### Software Engineering Practices:

- Version Control (Git), Rollbacks
- Unit/Integration/Manual Testing
- Agile Collaboration, Documentation
- UI/UX Fundamentals

### Networking & SDLC:

- Network Architecture (Client-Server)
- SDLC Models (Agile, Waterfall)
- Secure Authentication Practices
- Hashing, Salting & Peppering

### Database Management:

- Oracle SQL, PostgreSQL, MongoDB, MySQL (basic)
- DBMS Concepts, CRUD Operations, Schema Design
- Joins & Subqueries, Triggers
- Transactions (ACID Properties)

### Core Concepts:

- Object-Oriented Programming (OOP)
- Data Structures & Algorithms
- REST API Design, Modular System Design
- Clean Code Principles (DRY, KISS)

### Tools and Platforms:

- Spring Boot, Flask, Node.js (basic)
- OpenAI API, Git, GitHub
- IntelliJ IDEA, VS Code, Jupyter
- Android Studio, Power BI
- MongoDB Compass, Oracle SQL Developer