Anushka Kumar

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Professional Experience

SDE Intern, Deloitte Touche Tohmatsu India LLP **Gurugram, Haryana** *05/2025 - 07/2025 (2.5 months)*
- Designed and delivered a scalable SaaS **Compliance Management System** Dashboard with audit trails and KPI visualization.
- Conducted in-depth **competitive analysis** to define a high-impact feature roadmap and product strategy.
- Translated complex regulatory requirements into **actionable user stories**, ensuring seamless development and deployment.

Skills

Languages: Python, Java, C, JavaScript.
ML / Data: TensorFlow, PyTorch, Keras, Scikit-learn, NumPy, Pandas, OpenCV, Transformers (BERT), NLP.
Frontend: React / Next.js, Tailwind CSS, HTML.
Backend & Infra: Django, Flask, FastAPI, Docker, MSSQL, PostgreSQL, MySQL, MongoDB, Cassandra.
Tools: Git, GitHub, Jira, Jupyter, PowerBI, AutoML, Hadoop.

Education

B.Tech in Computer Science and Engineering **Manipal University Jaipur, Rajasthan** *07/2026*
- Achieved a GPA of **9.70**. Recognized on the **"Dean's List (Top 5%)"** for excellence in academics.
- Relevant Coursework: Big Data, NLP, AIML, CVPR, Cyber Security, Text Mining, Deep Learning, Data Science, Soft Computing

Higher Secondary School Certificate [CBSE] **Delhi Public School, Ranchi, Jharkhand** *07/2022*
- Graduated 12th with a score of **88%**.

Indian Certificate of Secondary Education [ICSE] **Loreto Convent, Ranchi, Jharkhand** *07/2020*
- Graduated 10th with a score of **97.6%** and secured **4th rank** in school.

Projects

Automated Data Exploration & Modeling Framework
- Engineered an auto-EDA framework integrating Pandas Profiling with statistical inference, PCA, and correlation heatmaps.
- Implemented modular AutoML pipelines to automate model training, hyperparameter tuning, and performance benchmarking.

Student Lifecycle Management (SLCM)
- Architected a full-stack Django application with PostgreSQL, implementing normalized relational schemas and RESTful APIs.
- Developed automated registration and grading modules with bulk inserts, query optimization, and transaction management.

Home Security Prototype for College Dorms
- Built edge-compatible system collecting labeled face data, augmenting it, and training a CNN model for real-time face detection.
- Achieved 95%+ accuracy and 15+ FPS; designed to alert students to unknown faces via webcam in dorm environments.

Hybrid AI-Powered E-Commerce Recommendation Engine
- Engineered a hybrid recommender system combining collaborative filtering with Transformers for personalized predictions.
- Integrated NLP (spaCy/BERT) to analyze product descriptions, improving recommendation accuracy by 18%.

Research Works

Deep Learning for Skin Disease Classification
- Applied CNNs, Swin Transformer and EfficientNet-B3 architectures for dermatology image classification.
- Employed transfer learning, augmentation strategies and systematic hyperparameter tuning to improve robustness on limited data.

Certifications

- Applied Data Science **Specialization** (IBM)
- Database Programming with SQL (Oracle)
- Machine Learning Crash Course (Google)
- Introduction to Computer Vision (MathWorks)
- Introduction to MATLAB (Vanderbilt University)
- Design and Analysis of Algorithms (NPTEL)
- Data Structures and Algorithms (UC San Diego)
- CCNAv7: Switching, Routing, and Wireless Essentials
- CCNAv7: Enterprise Networking, Security, and Automation (Cisco)