ABHIMANYU DUDEJA

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Available : Summer 2026

EDUCATION

Northeastern University, Boston, MA — Sept. 2025 – Present
Khoury College of Computer Sciences — Expected graduation: Dec 2027
Candidate for a Master of Science in Computer Science — GPA: 3.5/4.0
Relevant Coursework: Machine Learning, Data Mining, Cloud Computing, Database Systems

SRM Institute of Science and Technology, Chennai, India — Sept. 2021 – Jun 2025
Bachelor of Technology in Computer Science — CGPA: 8.04/10.0

TECHNICAL KNOWLEDGE

Languages	Python, C, C++, SQL, Java, R
ML/DL	TensorFlow, Keras, Scikit-learn, OpenCV, NumPy, Pandas
Tools	Jupyter, Git, AWS, Oracle Cloud, Power BI, Matplotlib, Seaborn, Plotly
Databases	MySQL, PostgreSQL, MongoDB
Certifications	Google Data Analytics, Machine Learning (Coursera), ML Foundations (AWS), Oracle Cloud Infrastructure, Python Development, SQL and Databases (Udemy)

WORK EXPERIENCE

Deloitte, Remote — Jul 2023 – Aug 2023
Data Engineering Intern
- Optimized AWS-based ETL pipeline using SQL and AWS Glue, improving data ingestion speed by 40%.
- Developed automated Power BI dashboards and monitoring scripts reducing debugging time by 30%.

Tech Mahindra, Noida, India — Jun 2023 – Jul 2023
Data Analyst Intern
- Automated KPI report generation using Python and SQL, reducing manual reporting time by 50%.
- Built interactive Power BI dashboards enabling stakeholders to make data-driven decisions.

PROJECTS

Multi-Stage Brain Tumor Classification using DNNs, Deep Learning — ICRTC 2025
- Accepted for publication. Developed CNN model using TensorFlow/Keras that classified brain tumors into multiple stages with 97% test accuracy on medical imaging datasets.
- Applied batch normalization and dropout layers to reduce overfitting by 40%. Integrated data augmentation techniques including rotation, flipping, and scaling for improved generalization.

Automated Brain Tumor Detection using Deep Learning, Medical Imaging — ICNSBT 2025
- Published CNN-based automated tumor detection system achieving 94% precision on MRI datasets with comprehensive evaluation metrics including sensitivity and specificity analysis.

Diabetic Retinopathy Detection, Computer Vision — May 2024 – Jun 2024
- Trained convolutional neural network on 35K+ high-resolution retinal images from Kaggle, achieving 92% accuracy in classifying disease stages. Fine-tuned hyperparameters and dropout layers boosting validation performance by 15%.

INTERESTS/ACTIVITIES

- Captain of Delhi National Basketball Team; 3rd Place Math Quiz; Hackathon participant (Node.js, Angular).