

# ABHIMANYU DUDEJA

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Available: Summer 2026

## EDUCATION

<b>Northeastern University</b> , Boston, MA	Sept. 2025 - Present
<b>Khoury College of Computer Sciences</b>	Expected graduation: Dec 2027
Candidate for a Master of Science in Computer Science	GPA: 3.0/4.0
<i>Relevant Coursework:</i> Machine Learning, Data Mining, Cloud Computing, Database Systems	
<b>SRM Institute of Science and Technology</b> , Chennai, India	Sept. 2021 - Jun 2025
<i>Bachelor of Technology in Computer Science</i>	CGPA: 8.04/10.0

## TECHNICAL KNOWLEDGE

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

## WORK EXPERIENCE

<b>Deloitte</b> , Remote	Jul 2023 - Aug 2023
<i>Data Engineering Intern</i>	
<ul style="list-style-type: none"><li>Improved data ingestion speed by 40% by optimizing AWS-based ETL pipeline using SQL and AWS Glue, processing large-scale datasets for enterprise analytics.</li><li>Reduced debugging time by 30% by developing automated Power BI dashboards and monitoring scripts for real-time pipeline health tracking and error detection.</li></ul>	
<b>Tech Mahindra</b> , Noida, India	Jun 2023 - Jul 2023
<i>Data Analyst Intern</i>	
<ul style="list-style-type: none"><li>Reduced manual reporting time by 50% by automating KPI report generation using Python and SQL, streamlining weekly performance tracking for cross-functional teams.</li><li>Built interactive Power BI dashboards with drill-down capabilities enabling stakeholders to analyze trends and make data-driven business decisions.</li></ul>	

## PROJECTS

<b>Multi-Stage Brain Tumor Classification using DNNs</b> , Deep Learning	ICRTC 2025 (Springer)
<ul style="list-style-type: none"><li>Achieved 97% test accuracy by developing CNN model using TensorFlow/Keras for classifying brain tumors into multiple stages on medical imaging datasets.</li><li>Reduced overfitting by 40% by applying batch normalization and dropout layers. Integrated data augmentation techniques including rotation, flipping, and scaling for improved generalization.</li></ul>	
<b>Automated Brain Tumor Detection using Deep Learning</b> , Medical Imaging	ICNSBT 2025 (Springer)
<ul style="list-style-type: none"><li>Achieved 94% precision on MRI datasets by building CNN-based automated tumor detection system with comprehensive evaluation metrics including sensitivity and specificity analysis.</li></ul>	
<b>Diabetic Retinopathy Detection</b> , Computer Vision	May 2024 - Jun 2024
<ul style="list-style-type: none"><li>Achieved 92% accuracy in classifying disease stages by training CNN on 35K+ high-resolution retinal images from Kaggle. Boosted validation performance by 15% through hyperparameter tuning and dropout optimization.</li></ul>	
<b>Multi-Calendar Application</b> , Java/MVC Architecture	Oct 2025 - Dec 2025
<ul style="list-style-type: none"><li>Achieved 90%+ test coverage by building calendar application supporting multiple calendars, recurring events, and various operational modes using MVC architecture with Builder, Command, and Decorator patterns.</li><li>Implemented XML/CSV import-export functionality and headless mode for automated scheduling operations.</li></ul>	