

# ABHIMANYU DUDEJA

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Available: Summer 2026

## EDUCATION

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|--|-------------------------------|
| <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

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|-----------------------|--|
| <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

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|--------------------------------|---------------------|
| <b>Deloitte</b> , Remote       | Jul 2023 - Aug 2023 |
| <i>Data Engineering Intern</i> |                     |

- Improved data ingestion speed by 40% by optimizing AWS-based ETL pipeline using SQL and AWS Glue, processing large-scale datasets for enterprise analytics.
- Reduced debugging time by 30% by developing automated Power BI dashboards and monitoring scripts for real-time pipeline health tracking and error detection.

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|-------------------------------------|---------------------|
| <b>Tech Mahindra</b> , Noida, India | Jun 2023 - Jul 2023 |
| <i>Data Analyst Intern</i>          |                     |

- Reduced manual reporting time by 50% by automating KPI report generation using Python and SQL, streamlining weekly performance tracking for cross-functional teams.
- Built interactive Power BI dashboards with drill-down capabilities enabling stakeholders to analyze trends and make data-driven business decisions.

## PROJECTS

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|--|-----------------------|
| <b>Multi-Stage Brain Tumor Classification using DNNs</b> , Deep Learning   | ICRTC 2025 (Springer) |
| • Achieved 97% test accuracy by developing CNN model using TensorFlow/Keras for classifying brain tumors into multiple stages on medical imaging datasets. |                       |

- Reduced overfitting by 40% by applying batch normalization and dropout layers. Integrated data augmentation techniques including rotation, flipping, and scaling for improved generalization.

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|---|------------------------|
| <b>Automated Brain Tumor Detection using Deep Learning</b> , Medical Imaging  | ICNSBT 2025 (Springer) |
| • Achieved 94% precision on MRI datasets by building CNN-based automated tumor detection system with comprehensive evaluation metrics including sensitivity and specificity analysis. |                        |

|   |                     |
|---|---------------------|
| <b>Diabetic Retinopathy Detection</b> , Computer Vision   | May 2024 - Jun 2024 |
| • 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. |                     |

|   |                     |
|---|---------------------|
| <b>Multi-Calendar Application</b> , Java/MVC Architecture   | Oct 2025 - Dec 2025 |
| • 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. |                     |

- Implemented XML/CSV import-export functionality and headless mode for automated scheduling operations.