

Ashish Kumar Thakur

Ph.D. Research Scholar

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Professional Summary

Ph.D. Research Scholar in Computer Science & Engineering at IIITDM Jabalpur with 5+ years of industry experience at Dell Technologies. Research interests include Quantum Computing, Quantum Social Network Analysis (QSNA), Artificial Intelligence, Machine Learning, Deep Learning, Large Language Models and Time Series Analytics. Published researcher with experience in industrial automation, applied AI, academic research, teaching laboratories and curriculum development.

Education

Indian Institute of Information Technology (IIIT), Jabalpur 2025–Present

Ph.D. (Part-Time), Computer Science & Engineering

Research Area: Quantum Computing, Quantum Social Network Analysis, Quantum Machine Learning

Mahatma Gandhi Central University, Bihar

2023–2025

M.Tech., Computer Science & Engineering

Specialization: Deep Learning, Artificial Intelligence, Computer Vision, NLP, Time Series

JNTUH, Hyderabad

2016–2020

B.Tech., Computer Science & Engineering

Professional Experience

Dell Technologies – Tax Specialist (North America Sales & Use Tax) Oct 2021–Present

- Managed US & Canada Sales and Use Tax Exemption operations supporting high-volume enterprise orders.
- Processed 200–500+ orders daily while maintaining 100% SLA compliance.
- Automated validation workflows using Python and improved operational efficiency.
- Performed large-scale data validation, statistical analysis and process optimization.
- Worked with Fusion, SFDC, DSA, DOMS, OMEGA, TEM and GCM platforms.
- Served as Subject Matter Expert (SME) for North America Tax Exemption processes.
- Collaborated with cross-functional global teams to resolve complex tax issues.
- Received multiple appreciation awards for collaboration, quality and delivery excellence.

Business Development Trainee – BYJU’S

May 2021–Jun 2021

- Completed structured Business Development training.
- Worked on customer engagement, CRM practices and sales strategy.
- Improved communication, presentation and stakeholder management skills.

Technical Consultant & Business Developer – Dopy Pvt. Ltd.

Jan 2021–Apr 2021

- Developed static and dynamic websites for clients.
- Designed branding and digital marketing materials.
- Gathered client requirements and supported business development initiatives.

SAP Intern – Cognitus Consulting IT Services Pvt. Ltd.

Feb 2020–Mar 2020

- Trained in SAP RICEF, SAP HANA, OData Services and SAP ACTIVATE methodology.
- Gained exposure to enterprise ERP implementation and analytics.

Research Publications

- DeepPlasticNet: Deep Learning-Driven Insights into Microplastic Pollution in Marine Environments (ICAAAIML 2025).
- MicroplasticNet-MLP: A Multi-Layered Model for Marine Pollution Prediction (Accepted).

- HEIN: Happiness Ensemble Intelligence Network for National Well-Being Prediction (Under Review).

Teaching Experience

- Conducted Python Programming, C Programming and Data Structures sessions.
- Designed application-based laboratory exercises and programming assignments.
- Prepared question papers, quizzes, practical examinations and evaluation rubrics.
- Guided students in problem-solving, coding practices and real-world software applications.

Technical Skills

Programming: Python, C, SQL

AI/ML: Machine Learning, Deep Learning, CNN, RNN, LSTM, GRU, Transformers, LLMs

Quantum Computing: Qiskit, Quantum Machine Learning, Quantum Circuits, QSNA, Quantum Kernels

Social Network Analysis: Graph Theory, Link Prediction, Dynamic Networks, Graph Neural Networks

Data Science: Pandas, NumPy, Matplotlib, Plotly, OpenCV, Feature Engineering

Time Series: ARIMA, SARIMA, Forecasting, ADF, KPSS

Research: Statistical Analysis, Hypothesis Testing, Technical Writing

Research Interests

Quantum Computing, Quantum Social Network Analysis, Artificial Intelligence, Machine Learning, Deep Learning, Large Language Models, Time Series Analytics.

Certifications

- Dell Technologies – Exam Developer (Credly Verified)
Credential
- Dell Technologies – Data Engineering Optimize (Credly Verified)
Credential

Awards & Recognition

Multiple appreciation awards from Dell Technologies for operational excellence, collaboration and process improvements.