

Piush Das

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EDUCATION

Indian Institute of Technology Madras <i>Bachelor of Science in Data Science and Application Development</i>	Jan. 2023 – Jan. 2027
	CGPA: 9.1

Relevant Coursework: Mathematics for Data Science, Statistics for Data Science, Python Data Structures and Algorithms, Database Management Systems, Machine Learning, Deep Learning, Artificial Intelligence, Linux, Software Engineering, Application Development

EXPERIENCE

Junior Developer Intern <i>NPTEL – National Programme on Technology Enhanced Learning</i>	Jan. 2026 – Present
<ul style="list-style-type: none">Migrate large-scale NPTEL databases from MySQL to PostgreSQL with schema redesign.Implement Django-based backend routes for secure login and role-based access control.Create Python automation scripts for technical operations and data integrity checks.Execute ETL data pipelines using Apache Beam on Google Cloud infrastructure.	<i>Chennai, Tamil Nadu</i>

Undergraduate Teaching Assistant <i>Indian Institute of Technology Madras</i>	Feb. 2025 – Sep. 2025
<ul style="list-style-type: none">Conducted weekly tutorials and doubt-clearing sessions for <i>CS2007: Machine Learning Techniques</i>.Mentored students on Linear Regression, Logistic Regression, PCA, EM Algorithm, K-Means, Naive Bayes, SVM, Decision Trees, and Ensemble Methods.Evaluated assignments involving mathematical derivations and algorithmic understanding of ML models.Collaborated with the course instructor to refine problem sets, question banks, and assessment rubrics.	<i>Chennai, Tamil Nadu</i>

ACADEMIC & MENTORSHIP ACTIVITIES

- Machine Learning Mentor for school students under the CODE School Connect Programme.
- Machine Learning Project Mentor for IIT Madras Data Science students.
- Linux Lab Assistant for IIT Madras BS Electronics Systems students.

PROJECTS

Instapark : Vehicle Parking App <i>Flask, VueJS, SQLite, Redis, Celery, Bootstrap</i>	July 2025 – Aug. 2025
<ul style="list-style-type: none">Built a Flask and SQLite based multi-user parking management system with Admin and User roles.Implemented role-based access control, automatic parking spot allocation, and time-based cost computation using Python.Integrated Redis caching and Celery background jobs for reminders, monthly reports, and CSV export.	

Engage2Value : From Clicks to Conversions <i>Python, Pandas, Scikit-learn</i>	Apr. 2025 – Jul. 2025
<ul style="list-style-type: none">Developed a regression-based machine learning model using scikit-learn to predict purchaseValue from multi-session data.Performed feature engineering and preprocessing using pandas and NumPy on behavioral, device, traffic source, and geographic features.Achieved an R² score of 0.65361, placing in the 87th percentile among 1800 participants.	

TECHNICAL SKILLS

Languages & Databases: Python, JavaScript, SQL

Frameworks & Libraries: Flask, Django, VueJS, NumPy, pandas, Matplotlib, scikit-learn, PyTorch, Hugging Face

Cloud & Systems: Linux, Google Cloud Platform (Compute Engine, Apache Beam)

Developer Tools: Git, VS Code, Google Workspace (Docs, Sheets, Slides)