

# Exploratory Data Science Internship

## Hands-On Learning with Industry Experts

For over a decade, Versetal has been transforming the way businesses leverage technology, turning it into a driving force for growth and innovation. With global teams in Boston, Alpharetta, and India, they deliver scalable, cutting-edge solutions for Security, Data, Applications, and Cloud/Infrastructure tailored to industries like life sciences, manufacturing, retail, energy, and technology.

Versetal has a busy consultancy specializing in Data Engineering, data pipelines, AI, and Machine Learning (ML) solutions. We partner with businesses to transform their data into actionable insights. As part of our commitment to innovation and education, we are excited to offer exploratory projects to Data Science engineering students at Boston University. These projects provide hands-on experience with real-world data challenges while delivering value to our customers.

### Purpose

These projects are designed to:

- Solve real business problems for our customers using data-driven approaches.
- Provide students with practical experience in Data Engineering, AI, and ML,
- Understanding how to formulate a data strategy for an organization

### Project Examples

Students will work on impactful projects such as:

- **Supply Chain Optimization:** "How are tariffs affecting our supply chain business?" Analyze the impact of tariffs on supply chain costs and efficiency using data modeling and predictive analytics with economic data.
- **Automation for Efficiency:** "What technical recommendations/services are best for our customer?" Leverage AI to analyze support case data and recommend automation strategies to reduce resolution times.

### Skills Required

To succeed in these projects, students should have some understanding of :

- **Cloud AI Models:** like Google Vertex AI, AWS SageMaker, or Azure Machine Learning
- **Python Libraries:** libraries such as Pandas, NumPy, Scikit-learn, TensorFlow, and PyTorch for data manipulation, analysis, and modeling.
- **SQL Skills:** ability to query database data using SQL.
- **Database Architecture:** Basic understanding of database design, data models, and data architecture principles.

### Benefits for Students

By participating in these projects, students will:

- Gain hands-on experience with real-world data and business challenges.
- Work with industry-standard tools and cloud platforms used in Data Engineering and AI/ML.
- Collaborate with experienced professionals in Data Engineering, AI, and ML.
- Build a portfolio of projects that demonstrate practical skills to future employers.