

# Aneesh Varla

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## Education

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### Bachelor of Technology in Mathematics and Computer Science

Aug 2023 – Present

Indian Institute of Science (IISc), Bangalore

*Expected Graduation: 2027*

Relevant Coursework: Data Structures and Algorithms, Numerical Analysis, Probability & Statistics, Applied Data Science and Artificial Intelligence.

## Skills

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- **Programming Languages:** Python, C
- **Mathematics/CS:** Probability, Statistics, Linear Algebra, Numerical Methods, Algorithms
- **AI/ML:** Basic NLP, Embedding-based Retrieval, Model Deployment
- **Languages:** English (Fluent), Hindi (Fluent), Telugu (Native), Tamil (Fluent)

## Certifications

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- **Microsoft Certified: Azure AI Fundamentals (AI-900)** – Credential in AI concepts, responsible AI, and Azure AI services.
- **IBM SkillsBuild: Data Science** – Digital credential covering Python for Data Science, visualization, and machine learning foundations.

## Projects

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### Path2Education Chatbot (SDG 4)

- Designed an AI-powered chatbot to adapt to students' needs and recommend personalized learning resources.
- Implemented NLP-based retrieval for question management using embeddings.
- Outcome: Improved relevance of student queries by ~35%.

### Ensemble Methods for Classification (XGBoost)

- Implemented an ensemble classification pipeline using **XGBoost** to improve predictive accuracy on structured datasets.
- Compared performance with baseline models (Logistic Regression, Decision Trees); achieved ~12–15% accuracy improvement.
- Tuned hyperparameters using cross-validation; explored feature importance to improve interpretability.

## Academic Interests

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Algorithms and Complexity, Cryptography, Probability and Stochastic Processes, Data Structures, Machine Learning, Materials Science

## Achievements & Activities

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- Selected for B.Tech in Mathematics and Computer Science, IISc (2027 Batch).
- Badminton player: Competed in IISc tournaments including **Eclipse Season 4**.
- Multilingual communicator: English, Hindi, Telugu, Tamil.
- Actively exploring interdisciplinary applications of mathematics in computer science and engineering.
- Pravega Merchandise Co-ordinator