Mamta Saini

[Portfolio](#) | [Github](#) | [LinkedIn](#)

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Skills

- **Programming & Tools**: Python, Scilab, SQL, VBA, Advanced Excel
- **Library**: Numpy, Pandas, Matplotlib, Scikit-Learn, keras, Tensorflow, Pytorch, SciPy, SymPy
- **Automation & Databases**: QPA, ETL, Data Parsing, Relational Databases, Cloud Infrastructure

Education

- **National Institute of Technology Kurukshetra** — Haryana
  Master of Science in Mathematics — *Aug 2023 – May 2025*

- **ARSD, University of Delhi** — New Delhi, India
  Bachelor of Science in Mathematics — *Aug 2020 – May 2023*

Experience

- **Personifwy [Link]** — Haryana
  Data Science Intern — *May 2023 – July 2023*
  - **Data Processing**: Developed automation tools for data processing using Python, reducing manual efforts by optimizing workflows.
  - **Data parsing**: Debugged and optimized Python scripts for efficient data parsing and model execution.

- **Grow Matrices[Link]** — Haryana
  Content Writer — *Apr 2021 – Apr 2023*
  - **Tech News**: Wrote and published engaging tech news articles for a website, covering the latest trends in tech.

Projects

- **Research Project on PINNs** — Kurukshetra
  Research Scholar — *Aug 2024 – Present*
  - **Analysis**: Analyzing controllers for robotic systems using fractional Physics Informed Neural Network & developed Python-based automation scripts for model training and evaluation, improving efficiency in hyperparameter tuning.
  - **Presentation**: Presented report to summarize the conclusions

- **Research Project on SINDy** — Kurukshetra
  Research Intern — *May 2024 – July 2024*
  - **Analysis**: Analyzed dynamical systems using Sparse Identification of Nonlinear Dynamics (SINDy) to identify governing equations from data and enhance model interpretability.
  - **Presentation**: Presented research findings on SINDy, highlighting formation of dynamics and the graphs of the results obtained.

- **Numerical Methods in Python** — Kurukshetra
  Learner — *Aug 2023 – May 2024*
  - **Analysis**: Conducted statistical analysis of numerical methods using Python, evaluating accuracy, convergence, and computational efficiency for solving differential equations.
  - **Presentation**: Presented insights on numerical methods and their statistical analysis using Python, focusing on accuracy, convergence, and computational efficiency.

Certification\Courses[Link]

- **Microsoft Certified-Azure AI Fundamental**: Cloud Services and application
- **British Airways**: Data Science, Machine Learning
- **BCG X**: Data Visualization, Model Interpretation
- **CASML Conference**: Deep Learning, Networking
- **IIT Roorkee**: Data Science with Python
- **NPTEL**: Number theory
- **IIRS-ISRO**: AI/ML for Geodata Analysis Course

Achievements

- **Student Placement Coordinator:**: Management, Networking
- **Founder & President**: Leadership, Self-motivated
- **Ex-core team Head at NSS, DU**: Problem solving, Optimism
- 3rd **position in Tug of War**: Team-player, Planning