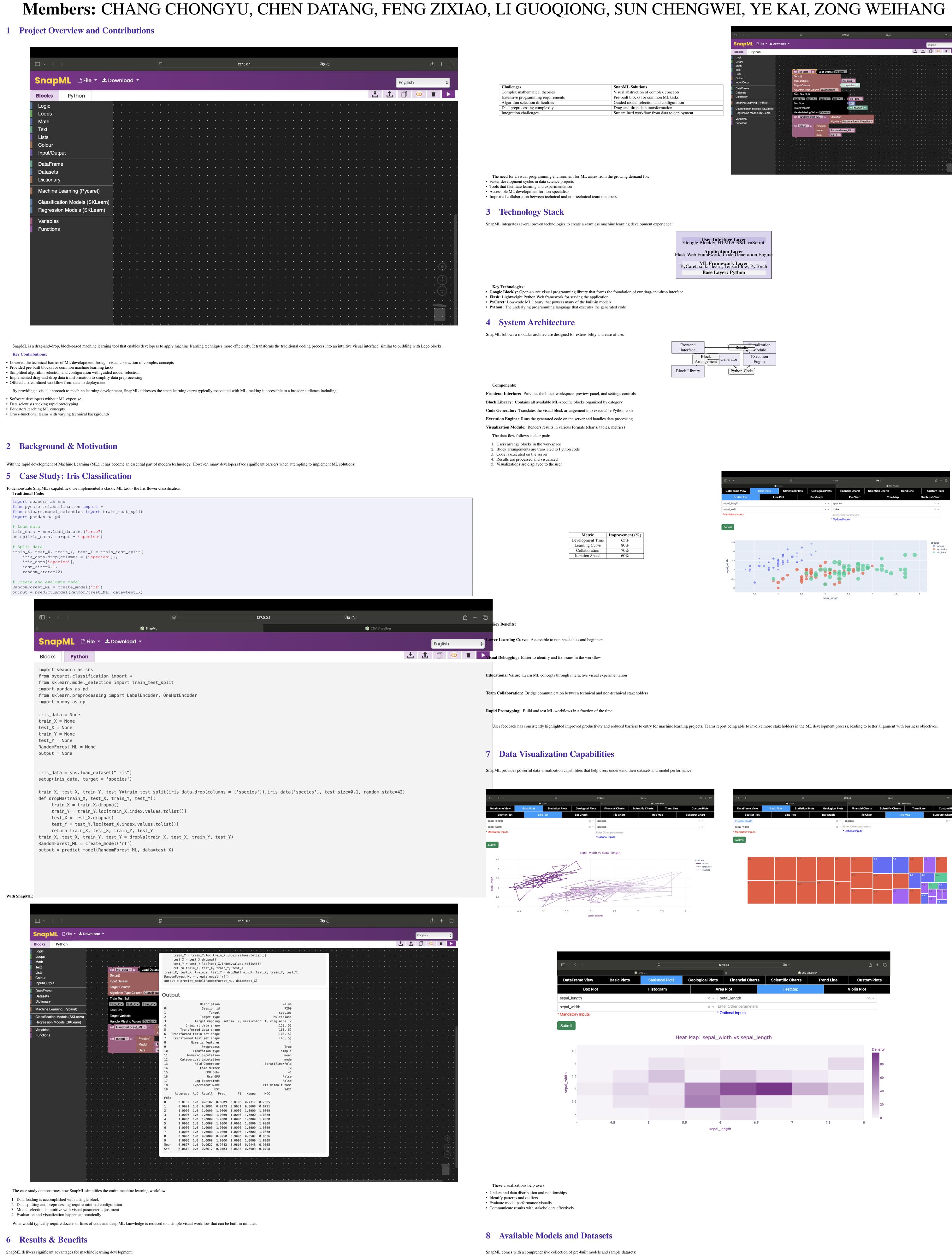
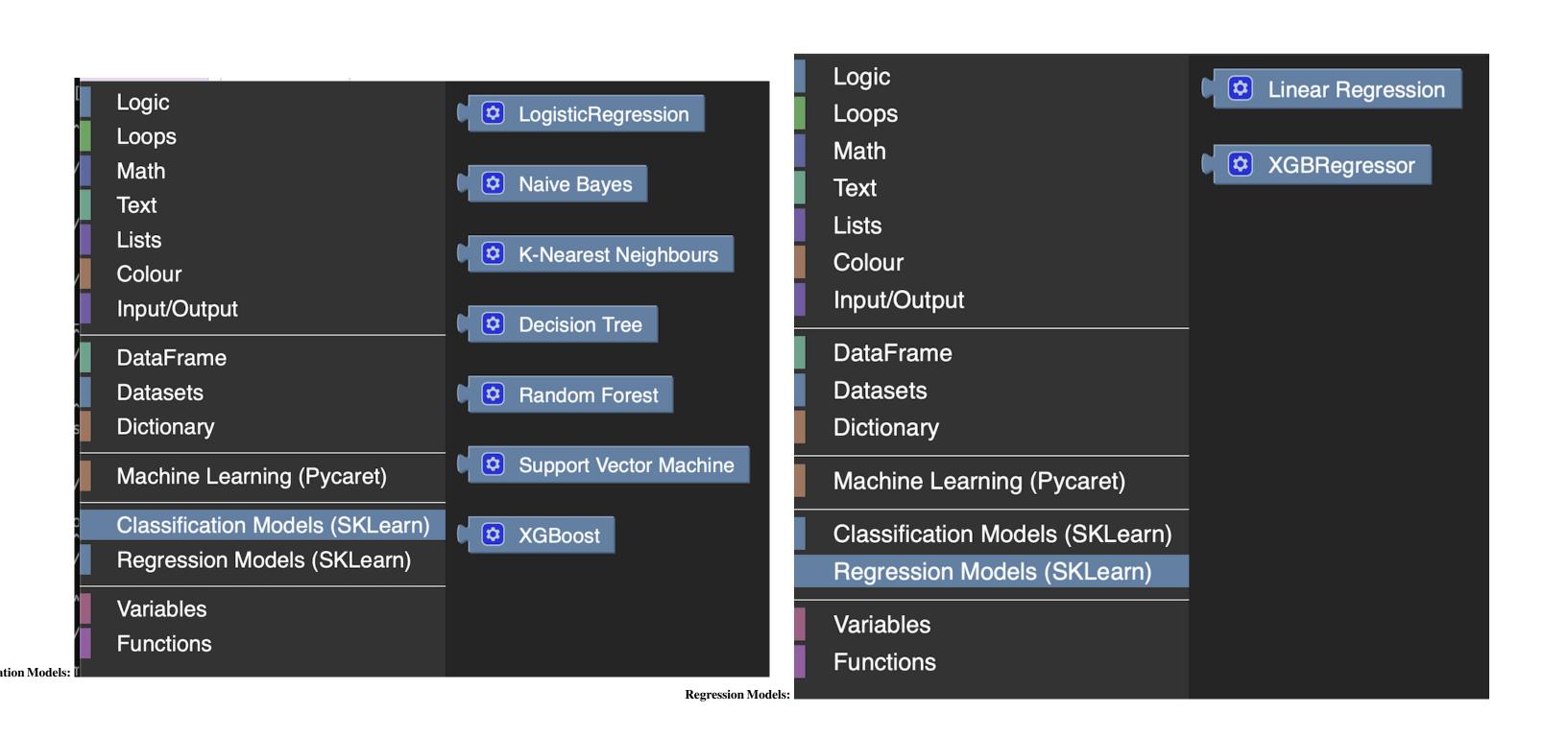
## **SnapML:** A Visual Programming Tool for Machine Learning

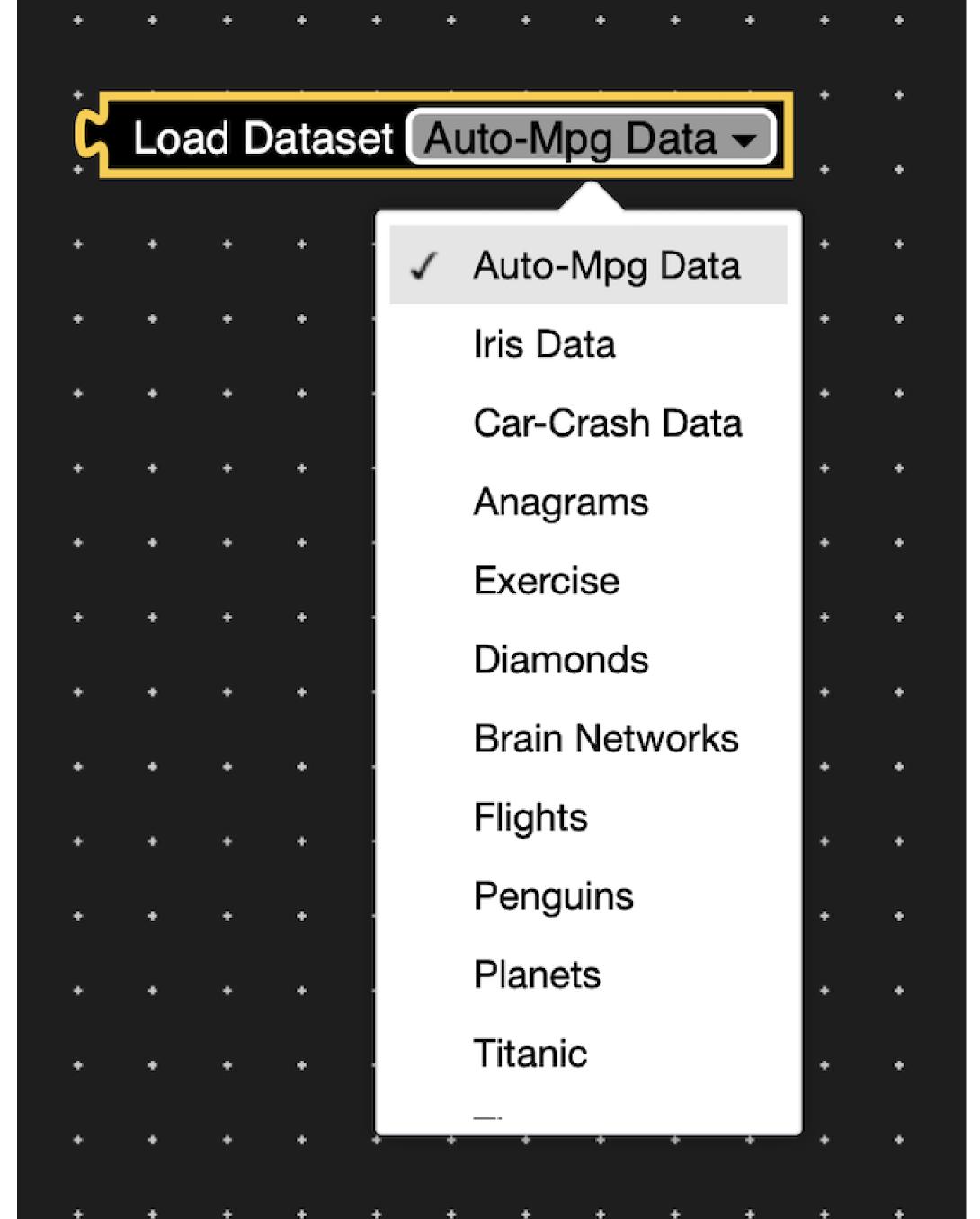
A Block-Based Drag-and-Drop Interface for Machine Learning Development

## CS5351 Software Engineering Final Project — Team 8

## **Team Leader:** LI ZHIYU







Pre-loaded Datasets:

- Having these resources readily available allows users to:
   Experiment with different algorithms quickly
- Learn from example datasets
  Compare model performance across different approaches
  Start prototyping without needing to source external data

## 9 Future Development & Conclusion

- Future Development
  Our roadmap for SnapML includes several exciting enhancements:
  Enhanced Block Library: Adding support for more advanced ML algorithms, including deep learning architectures and reinforcement learning
- Cloud Integration: Seamless deployment to cloud platforms such as AWS, Google Cloud, and Azure
  Collaborative Features: Real-time multi-user editing and version control integration
- Custom Block Creation: User-defined blocks for specialized tasks and domain-specific functionality
   Mobile Support: Responsive design for various devices to enable on-the-go ML development
- Extended Visualization: More interactive and customizable data visualization options

  Conclusion

  Should represent a significant step forward in democratizing machine learning development.
- SnapML represents a significant step forward in democratizing machine learning development by:

   Making ML accessible to a broader audience regardless of technical background
- Reducing the complexity of building and testing ML models
  Providing an educational platform for learning ML concepts through practical application
  Enabling rapid prototyping and experimentation for data scientists
- Enabling rapid prototyping and experimentation for data scientistsFacilitating better collaboration between technical and business teams
- Through its intuitive interface and powerful capabilities, SnapML aims to become an essential tool for developers looking to incorporate machine learning into their projects without the steep learning curve traditionally associated with ML development.