

Enhancing Property Valuation Accuracy with Ensemble Modeling Techniques

In the realm of property valuation for taxation purposes, precision, fairness and equity are paramount. This presentation explores the application of ensemble modeling techniques to enhance the accuracy and robustness of property appraisals. Ensemble models, which combine multiple machine learning algorithms to improve predictive performance, offer a powerful approach to address the inherent challenges in mass appraisal processes.

The presentation will delve into various ensemble modeling methods illustrating their effectiveness in refining property value estimates. By leveraging diverse algorithms and datasets, these techniques mitigate individual model biases and enhance overall prediction accuracy, fairness and equity. The presentation will include case studies and empirical results demonstrating the tangible benefits of ensemble modeling in real-world mass appraisal scenarios.

Attendees will gain insights into the implementation strategies, potential pitfalls, and best practices for integrating ensemble models into existing appraisal frameworks. This session aims to provide property tax professionals with cutting-edge tools and methodologies to elevate the precision and fairness of property valuations, ultimately contributing to more equitable tax assessments and improved public trust.



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Will Jarvis is the Founder and CEO of Valuebase, with extensive experience in product management, data science, and business development. Since founding Valuebase in 2023, Will has raised over \$8 million in venture capital to support the development of AI-powered property

valuation. His leadership has been instrumental in building and scaling Valuebase's operations across multiple jurisdictions.