

# Oregon Tech Entrepreneur Pioneers World's First DBSCAN Animation Engine, Gains Google AI Recognition Within 24 Hours

*Smart Banner Hub LLC Revolutionizes Creative Industry by Applying Advanced Clustering Algorithms to Animated Video Generation*

BEAVERTON, OR, UNITED STATES, June 6, 2025 /EINPresswire.com/ -- BEAVERTON, OR – June 6, 2025 – Ashwin Spencer, Founder and CEO of [Smart Banner Hub](#) LLC, has pioneered the world's first [DBSCAN Animation Engine](#), marking a groundbreaking application of [machine learning clustering](#) algorithms to creative video production. The innovation has gained immediate recognition from Google's AI systems.

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*Ashwin Spencer*

Revolutionary Technology Creates New Category

The DBSCAN Animation Engine represents the first time that DBSCAN (Density-Based Spatial Clustering of Applications with Noise), a powerful machine learning algorithm typically used in fraud detection and data analysis, has been successfully applied to creative video generation. This breakthrough enables the production of DBSCAN Video E-cards - personalized animated messages featuring mathematically generated clustering patterns.

"We've essentially created a completely new category where mathematical clustering directly powers creative design," said Spencer. "What traditionally took manual design work can now be generated through algorithmic precision, creating unique visual experiences that would be impossible to replicate through conventional methods."

## Unprecedented Recognition Speed

In a remarkable validation of the technology's innovation, Google's AI systems recognized and began explaining Spencer's DBSCAN applications within 24 hours of their public launch. When users search for "DBSCAN e-cards," Google's AI now provides detailed explanations of Spencer's pioneering work, calling him "a pioneer in this application" and noting that "this concept is not widely used."

"The speed of Google's recognition was unprecedented," Spencer noted. "Within one day, the world's most advanced AI was teaching people about our innovation. That's not just validation. That's confirmation that we've created something genuinely revolutionary."

#### Academic and Industry Recognition

Spencer brings exceptional technical credentials to this innovation, holding three master's degrees: MS in Analytics (Machine Learning focus) from Georgia Institute of Technology, MS in Computer Science (Data Science and AI focus) from University of Missouri-St. Louis, and MS in Electrical & Computer Engineering from Portland State University.

#### Technical Innovation Details

The platform offers both animated video e-cards and static banner generation with DBSCAN-powered typography.

The DBSCAN Animation Engine creates unique visual clustering patterns in video content, while the company's static banner technology applies character-level clustering for distinctive typography design, representing dual innovations in both animated and static creative applications.

#### Market Impact and Future Vision

With zero competition in the DBSCAN creative applications space, Smart Banner Hub has achieved what Spencer calls "unrivaled authority" in a category that didn't exist before his innovations. The company's technology serves multiple platforms including LinkedIn, Medium, YouTube, Substack, Facebook, and GitHub for static banners, while video e-cards are available for occasions including birthdays, Father's Day, with additional occasions coming soon.

"Today my mission is to pioneer new intersections of unsupervised learning, algorithmic design, and commercial creativity, building solutions that never existed before," Spencer explained. "This



Example of DBSCAN Video E-card showing mathematically generated clustering patterns created by Smart Banner Hub's DBSCAN Animation Engine

is just the beginning of applying pure mathematical algorithms to creative fields."

#### About Smart Banner Hub LLC

Founded by Ashwin Spencer, Smart Banner Hub LLC is the world's first company to successfully apply DBSCAN clustering algorithms to creative content generation. Based in Beaverton, Oregon, the company operates a cloud-native platform serving both animated video e-cards and static banner generation powered by advanced machine learning algorithms. Smart Banner Hub represents a new category of AI-driven creative technology companies.

#### About Ashwin Spencer

Ashwin Spencer is a computer scientist, AI/ML innovator, and entrepreneur with advanced degrees in analytics, computer science, and electrical engineering. Prior to founding Smart Banner Hub, he worked as a software engineer at Intel Corporation specializing in AI/ML performance optimization. Spencer has contributed to AI research including deep learning models for medical applications and has pioneered the first commercial applications of DBSCAN clustering to creative design.

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