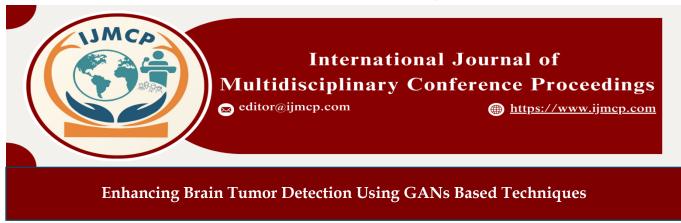
## Faisal Irfan, Muhammad Abdul Wasey, Muhammad Shariq Iqbal, Laiba Ismail Vohra, & Sumaira Rounaq



## 1<sup>st</sup> Faisal Irfan, 2<sup>nd</sup> Muhammad Abdul Wasey, 3<sup>rd</sup> Muhammad Shariq Iqbal, 4<sup>th</sup> Laiba Ismail Vohra, & 5<sup>th</sup> Sumaira Rounaq

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KEYWORDS	ABSTRACT
AI, Machine Learning, Brain Tumor Detection, AI-Driven Medical Imaging, Generative Adversarial Networks (GANs), MRI Contrast Enhancement, Convolutional Neural Networks (CNN). <b>ARTICLE HISTORY</b> Date of Publication:16-04- 2025 <b>Conference Organizer(s)</b> Research Consultancy on Social & Management Development & University of Karachi DHA Suffa Uniersity	This research introduces an innovative, non-invasive approach for brain tumor detection that minimizes reliance on gadolinium-based contrast agents. By harnessing the power of advanced generative models, including various Generative Adversarial Networks (WGAN, DCGAN) and cutting-edge diffusion models, the study synthesizes high-quality, contrast-enhanced MRI
Corresponding Email Volume-Issue-Page Number Citation	Faisal23423@gmail.com   2(1) 12   Irfan, F., Wasey, M. A., Iqbal, M. S., Vohra, L. I., & Rounaq, S. (2025). Enhancing Brain   Tumor Detection Using GANs Based Techniques. Proceedings of the 1st International   Conference on Innovation and Sustainability in Management and Social Sciences,   *International Journal of Multidisciplinary Conference Proceedings, 2(1).