

Sales-Lab: Sales Analytics Website

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Abstract: *The creation of the Sales Analytics Dashboard project stands as a testament to the effectiveness of contemporary technology in facilitating businesses to garner actionable insights from their data. The creation of the MERN stack technology on the platform is a noteworthy accomplishment as it amalgamates the widely recognised web development technologies of MongoDB, Express.js, React, Typescript, and Node.js.*

Moreover, the project has implemented a CI/CD pipeline with AWS technology that guarantees the application is consistently updated and operates smoothly without any disruption to user experience. This deployment methodology has facilitated the development team to deliver new features and updates promptly and proficiently. via the usage of statistics visualisation and reporting, the income Analytics Dashboard offers corporations with the capability to make informed decisions primarily based on real-time sales facts. With this tool, businesses can acquire a better comprehension of their sales trends, identify areas for improvement, and ultimately enhance their profitability.

In summary, the Sales Analytics Dashboard project is a prosperous implementation of cutting-edge technology to address real-world business needs. Its development using the MERN stack technology and deployment with a CI/CD pipeline on AWS gives the value of utilizing modern software development methodologies to create reliable and efficient applications.

Keywords: Sales Analytics

REFERENCES

- [1]. L. Wu, H. Qu, and Y. Li, "Sales analytics for hospitality and tourism: a systematic literature review," *Journal of Travel & Tourism Marketing*, vol. 36, no. 8, pp. 873-891, 2019. doi: 10.1080/10548408.2019.1644747
- [2]. <https://www.tandfonline.com/doi/abs/10.1080/10548408.2019.1644747>
- [3]. P. Singh and S. Gupta, "Business analytics in sales: a review of current research and trends," *Journal of Advances in Management Research*, vol. 16, no. 3, pp. 340-357, 2019. doi: 10.1108/JAMR-08-2018-0086 <https://www.emerald.com/insight/content/doi/10.1108/JAMR-08-2018-0086/full/html>
- [4]. M. A. Qureshi, M. A. Niazi, S. H. Ali, and S. H. Shah, "A comparative study of data mining tools in sales analytics," *Journal of Business Research*, vol. 69, no. 5, pp. 1761-1769, 2016. doi: 10.1016/j.jbusres.2015.10.053 <https://www.sciencedirect.com/science/article/abs/pii/S0148296315003669>
- [5]. N. A. Ali, A. Alsewari, M. Othman, and H. A. Alsamarraie, "Sales analytics: a systematic literature review," in *2019 IEEE 9th Symposium on Computer Applications & Industrial Electronics (ISCAIE)*, pp. 227-231, 2019. doi: 10.1109/ISCAIE.2019.8834851
- [6]. <https://ieeexplore.ieee.org/abstract/document/8834851>
- [7]. M. L. Schkade, J. H. Helgeson, and T. L. Mullen, "Using data analytics to optimise sales force performance: a review of the literature and directions for future research," *Journal of Personal Selling & Sales Management*, vol. 38, no. 1, pp. 61-82, 2018. doi: 10.1080/08853134.2017.1406347 <https://www.tandfonline.com/doi/abs/10.1080/08853134.2017.1406347>
- [8]. HTML: <https://developer.mozilla.org/en-US/docs/Web/HTML>
- [9]. CSS: <https://developer.mozilla.org/en-US/docs/Web/CSS>
- [10]. TypeScript: <https://www.typescriptlang.org/docs/>
- [11]. Node.js: <https://nodejs.org/en/docs/>
- [12]. Express.js: <https://expressjs.com/en/4x/api.html>
- [13]. Chart.js: <https://www.chartjs.org/docs/latest/>

- [14]. Jenkins: <https://www.jenkins.io/doc/>
- [15]. Linux: <https://www.linux.org/docs/>
- [16]. AWS: <https://aws.amazon.com/documentation/>
- [17]. EC2: <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/concepts>.
- [18]. Docker: <https://docs.docker.com/>
- [19]. GitHub: <https://docs.github.com/en>