

# AI-Based Weather Modelling Market Size, Share & Trends Analysis Report By Component (Software, Services), By Technology, By End Use, By Region, And Segment Forecasts, 2025 - 2033

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## Abstracts

### AI-Based Weather Modelling Market Summary

The global AI-based weather modelling market size was estimated at USD 165.7 million in 2024 and is projected to reach USD 926.3 million by 2033, growing at a CAGR of 21.3% from 2025 to 2033. The market is driven by various factors such as rising demand for highly accurate, real-time forecasting to mitigate climate risks and natural disasters.

Growing adoption across agriculture, energy, aviation, and maritime sectors for operational efficiency and risk management further fuels demand. Advances in machine learning, big data analytics, and cloud computing, coupled with increasing government initiatives for climate resilience, are accelerating market growth. The AI-based weather modelling market is being driven by rapid advancements in machine learning algorithms, big data analytics, and high performance computing. Increasing availability of satellite imagery, sensor data, and IoT-enabled weather stations enables AI systems to analyze massive volumes of information in real time.

AI-based weather modeling approaches improve forecast accuracy by detecting nonlinear climate patterns and short term anomalies. Cloud computing and scalable AI platforms also reduce the cost and time required for complex simulations, encouraging broader adoption. The ability to integrate heterogeneous datasets including atmospheric, oceanic, and geospatial inputs further strengthens predictive capabilities, making AI driven weather modelling more reliable and indispensable across sectors.

Rising economic losses due to extreme weather events are compelling industries and governments to invest in AI-based weather forecasting solutions. Sectors such as aviation, maritime, agriculture, energy, and insurance demand highly accurate, location specific predictions to reduce risks and optimize operations. In aviation and shipping, AI powered forecasts enhance safety and fuel efficiency. In agriculture, they support precision farming and crop protection, while in renewable energy, they improve grid balancing for solar and wind power. Insurance and reinsurance firms increasingly rely on AI based weather models for risk assessment and claims forecasting. The cost savings, efficiency improvements, and risk mitigation benefits act as major growth driver for the market.

### Global AI-Based Weather Modelling Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented global AI-based weather modelling market report based on component, technology, end use, and region:

#### Component Outlook (Revenue, USD Million, 2021 - 2033)

Software

Services

#### Technology Outlook (Revenue, USD Million, 2021 - 2033)

Machine Learning

Deep Learning

Computer vision

Others

#### End Use Outlook (Revenue, USD Million, 2021 - 2033)

National Meteorological Agencies & Governments

Aviation & Maritime

Energy & Utilities

Agriculture & Agritech

Others

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Asia Pacific

China

Japan

India

South Korea

Australia

Latin America

Brazil

Middle East and Africa (MEA)

UAE

KSA

South Africa

**This report can be delivered to the clients within 2 Business Days**

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