



## Aerospace & Satellite Data Analytics

### Description

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The aerospace arena is rapidly expanding its horizons, with satellite data becoming the linchpin in a technologically interconnected world. The industry, once cloaked in exclusivity, now touches the lives of millions through a constellation of applications, from global communication networks to precision agriculture. In this burgeoning space economy, which is scaling towards a multi-billion dollar zenith, the mastery of data analytics emerges as a critical catalyst for innovation and progress. With private and government agencies vying for industry leadership, the space economy will continue to witness unprecedented growth in the coming years.

At ATMECS, we recognize the pivotal role of harnessing this celestial data trove. With our finger on the pulse of evolving market dynamics and a decade of expertise in cutting-edge technology, we translate cosmic conversations into terrestrial solutions. Our mission is to distill complex satellite datasets into crystal-clear insights, enabling our clients to navigate the new frontiers of space with confidence and foresight. We aspire to leverage satellite communications and earth observations like remote sensing and other satellite data for societal benefits. From real-time environmental monitoring to sophisticated navigation systems, ATMECS stands as a beacon for businesses and governments, guiding them

through the cosmos of possibilities with our strategic data acumen.

## **Our Approach**



In the expansive universe of aerospace and satellite data analytics, ATMECS emerges as a guiding star for entities striving to harness the profound potential of space-borne data streams. Our approach is rooted in a steadfast commitment to transforming complexity into operational excellence. We empower

organizations to capture the voluminous data emitted from various sources, including but not limited to satellites, weather and meteorological stations, and space agencies, turning it into a strategic asset that fuels innovation and growth.

ATMECS propels this journey by demystifying the intricacies of space data. We craft bespoke solutions that bridge the gap between advanced space technologies and practical, terrestrial applications. With a firm grip on the pulse of aerospace and satellite datum and a vanguard of industry-specific expertise, we ensure that our clients are equipped not just to adapt but to lead in increasingly data-centric space applications.

Our partnership ecosystem, punctuated by alliances with sector pioneers and fortified by our own technological prowess, places us at the forefront of the industry. We enable seamless integration of cutting-edge analytics and engineering, paving the way for advancements in Earth observation, satellite communication, and navigation. In essence, ATMECS is more than a service provider; we are your co-navigator in the quest to explore and exploit the endless possibilities that space data offers.

## Our Services

With multiple decades of combined experience across multiple functions, ATMECS has a deep understanding of the aerospace and satellite data sectors. This expertise allows ATMECS to navigate the complexities and rigorous requirements of this niche industry effectively. ATMECS is equipped to support a range of aerospace and satellite services, including satellite communications for various industries, cybersecurity, ground station operations, and AI in Aerospace applications, among other critical functions in this highly specialised field.



# Aerospace and Satellite

## End Users & Clients

Launch Agencies	Satellite Developers	Satellite Constellation Owners	Space Tourism Agencies	National Space Defense
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## Client Sectors & Use

Government Civilian and Strategic Use
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## Our Focus Areas <sup>1, 2</sup>

Space Data Services		
<ul style="list-style-type: none"><li>• Engineering &amp; Infrastructure</li><li>• Environmental &amp; Weather</li><li>• Space Real Time Systems</li><li>• Mission Data Analysis</li><li>• Earth Observations</li><li>• Communications,</li><li>• Space Debris Analysis</li><li>• Space Travel</li><li>• Bespoke Web Apps</li></ul>	<ul style="list-style-type: none"><li>• Position, Navigation &amp; Time</li><li>• Decision Support Systems</li><li>• Data Automation</li><li>• Robotics &amp; IoT</li><li>• Apps of Strategic &amp; Secure Areas</li><li>• Aviation &amp; Maritime</li><li>• Agriculture &amp; Forestry</li><li>• Space Science &amp; Planetary</li><li>• Transportation &amp; Logistics</li></ul>	<ul style="list-style-type: none"><li>• Robotics</li><li>• On Earth</li><li>• AR/VR</li><li>• Space</li><li>• Space</li><li>• Digital</li></ul>

## ATMECS Tools

<ul style="list-style-type: none"><li>• Simulation Tools</li><li>• S/W Development Suits</li></ul>	<ul style="list-style-type: none"><li>• Image Processing tools</li><li>• Video Analytics</li></ul>
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## Our Work

In the aerospace and satellite sectors, where data-driven insights are increasingly critical to operational success and strategic advancement, ATMECS Global stands out as a pivotal technology services partner. Leveraging deep domain expertise and comprehensive end-to-end technology services, ATMECS collaborates with industry leaders to enhance data analytics capabilities, ensuring that aerospace clients can optimize mission outcomes and drive future innovations effectively.



### Geospatial Analysis for Urban Development

Partnering with national space agencies to utilize satellite imagery and analytics for sustainable urban planning.



### **Space Traffic Monitoring**

Collaborating with international bodies to develop systems for monitoring the increasing density of space traffic.



### **Real Time Systems for Ground Operations**

Implementing real-time systems for ground control operations, ensuring efficient satellite command and data management.



### **Cybersecurity Launch Readiness**

Ensuring secure satellite launch operations by protecting data, communication links, and ground systems from cyber threats.

### **Our Team of Experts**

Our subject matter experts are seasoned industry professionals who can provide thought leadership and strategic or tactical support for your next aerospace initiatives.



## Gayathri Malolan

CHIEF EXECUTIVE OFFICER

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Bio

## Gayathri Malolan

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Gayathri Malolan is a strategic thinker and self-starter with demonstrated ability in creating and sustaining organizational growth. As part of the leadership team since its inception, Gayathri has played a key role in crafting ATMECS's vision and building brand value for the company within the industry. She is responsible for an enviable clientele of several industry leaders including in the M&E, High Tech, Transportation, and Healthcare domains. She remains deeply committed to customer success, and her flair for building genuine, lasting partnerships has been the hallmark of her accomplishments through the years.

Early in her career, she trained and managed a large sales promotion organization, Yellow Pages, India, collaborating with Bell Canada. This experience, combined with her MBA, later catapulted her to head the country operations and to help set up teams, including in Singapore, Thailand, Sri Lanka, Macau, and Indonesia.

Gayathri believes in achieving professional success, following the basic principles of life.

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## Sanjay Singh

CHIEF ENGINEERING OFFICER

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Bio

## Sanjay Singh

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With experience in large organizations and applying those learnings to start-ups and more importantly unlearning is what Sanjay loves to do. A career spanning about 25 years, he has built passionate technical teams at Microsoft, NorthgateArinso, Rofous, and is replicating the success at ATMECS.

Sanjay works with an objective to uncover the potential of software engineers and empower them to reach greater heights in the field of software creation and personal growth. Relentless optimism is what he believes in.

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**Dr. Rao V.S.**

CHIEF MENTOR - AEROSPACE

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Bio

**Dr. Rao V.S.**

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**Dr. Seshagiri Rao Vellanki** is an Indian Scientist, former Distinguished Scientist and Associate Director at **Satish Dhawan Space Centre (SDSC), Indian Space Research Organization (ISRO)**. He has a working experience of more than 39 years in various capacities handling different disciplines at the Centre. Later served three more years as Prof. Satish Dhawan Professor at Indian Space Research Organization (ISRO). He is instrumental in realizing Ground Instrumentation, Control Centre and Real-time Systems for Operations. He worked extensively in Simulations, Flight Data Processing and Data Analytics.

He was a recipient of Astronautical Society of India (ASI) Space Gold Medal in 2000 and ISRO Merit Award, Performance Excellence and Team Awards in 2006, 2011, 2013 and 2015. He is a fellow of many professional bodies in Aerospace, Science & Technology. He has published more than 60 papers in various journals and conferences. He is a noted speaker on advanced technologies at national and international fora.

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### Sai S Sampathkumar

Assistant Vice President, Product Management

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Bio

### Sai S Sampathkumar

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Sai has about 20 years of experience across multiple industries and geographies with functional expertise in Business Analytics, Product Management, Business Strategy and Organizational Leadership. At ATMECS, he plays at the convergence of Sports Business, Digital Technologies and Next Generation Analytics.

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Prior to joining ATMECS, he held influential analytics and product management roles with companies like Progressive Insurance, Farmers Insurance in the US, has been a second generation small business owner in manufacturing and has worked with top sports organizations in India as an entrepreneur. Sai holds an MBA degree in General Management from Cornell University, an MS in Applied Statistics from Bowling Green State University, USA. He is also a certified Lean Six Sigma Black Belt.

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## Are you interested in what we do? Reach out to the passionate minds!

With vibrant, energetic, agile, nimble teams, we are constantly looking to solve complex problems. Contact us to know more!

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