Aegis School of Data Science Curriculum

Websites:
- www.aegis.edu.in
- www.mUniversity.mobi/Aegis

About us/history/introduction:
The old models of producing general managers and functional specialists are no longer adequate in today's fast changing environment. Organizations need leaders who are able to harness the power of innovation and lead them through a rebirth - they need 'Renaissance Leaders'. "How do we create a Renaissance Leader? Are they born or are they made?"

We founded Aegis School of Data Science/Aegis to answer these questions.
Founded in the year 2002 in Indore but currently its main campus is in Navi Mumbai Full address- 11th floor Kukreja Center Sector 11 CBD Belapur Navi Mumbai , India with **support from Bharti Airte**l to develop cross-functional technology leaders.

Witnessing the success of Industry-academic **alliance in 2015 Aegis and IBM** collaborated to launch, India's first true Data Science Program known as Post Graduate Program in Data Science, Business Analytics and Big Data; PGP in Cyber Security; PGP in Applied AI; PGP in Blockchain. But currently we have at our campus in Navi Mumbai Post Graduate Program in Data Science, Artificial Intelligence and Business Analytics.

Program Overview/Programs offered /Program Models/ Main Programs Currently
1. **Full Time PGP Online / On-Campus Total Program:**
   - 45 Credit Units
   - 9 months of Class room training (3 terms each of 3 months) + 2 months of Capstone & Live Project
   - Program Duration: 11 months

2. **Executive Weekend PGP Live Online Interactive :**
   - Total Program: 36 Credit Units
   - Core courses: 30 Credit Units
   - Units Elective courses: 6 Credit Units
   - Program Duration :11 months

3. **Executive PGP On-Campus Classroom Model Total Program:**
   - 36 Credit Units
   - Core courses: 30 Credit Units
   - Units Elective courses: 6 Credit Units
   - Program Duration: 11 months

Core Courses
- 1. Statistics and Probability for Business Analytics
- 2. Business Use Cases of Big Data and Data Science
- 3. Machine Learning for Data Science

- 4. R for Data Science
- 5. IBM Watson Analytics
- 6. Predictive Analytics using IBM SPSS
- 7. Big Data Analytics using IBM InfoSphere BigInsights
- 8. Fundamentals of Enterprise Performance Management using IBM Cognos
- 9. Visualization
- 10. Natural Language Processing (NLP) for Text Analytics
- 11. Capstone Project
- 12. Data Analysis using SQL
- 13. Python for Data Science
- 14. Machine Learning using Scikit-Learn
- 15. Apache Spark
- 16. Data Preparation

Elective Courses
- 1. Hadoop
- 2. Deep Learning
- 3. Retail Banking
- 4. Artificial Intelligence (AI)
- 5. Internet of Things (IoT)
- 6. HR Analytics
- 7. Web Analytics
- 8. Cloud using IBM Bluemix
- 9. Graph Database
- 10. Financial Analytics
- 11. Advanced Machine Learning
- 12. Advanced Statistics & Probability
- 13. Social Media Analytics
- 14. Apache Pig
- 15. Apache Flume
- 16. Machine Learning over AWS
- 17. Machine Learning over Microsoft Azure
- 18. Business Analytics
- 19. Cognitive Computing
- 20. Deep Learning using TensorFlow
- 21. Operations Analytics
- 22. Customer Analytics
- 23. Prescriptive Analytics
- 24. Application Development and Deployment

-**Partnership :**
1.Vishwaniketan Institute of Management Entrepreneurship and Engineering Technology (ViMEET)
We're thrilled to announce that Aegis School of Data Science has signed an MoU with Vishwaniketan Institute of Management Entrepreneurship and Engineering Technology

[V(iMEET)](#) to launch two cutting-edge Post Graduate Programs (PGPs) at the ViMEET campus in Khalapur:
->PGP in Data Science, Business Analytics, and AI
-> PGP in Generative AI and AI Agents

The MoU was signed by:
- Mr. [Bhupesh Daheria](#), Managing Trustee, Aegis Knowledge Trust
- [Dr. Sandeep Inamdar](#), Trustee & Vice President, ViMEET

2.Indala College of Engineering

Admissions Open!
Students can start applying now for the September 2025 intake at [aegis.edu.in](#)
Let's shape the next generation of AI leaders together!

Program Highlights
- Career launchpad in Big Data & Analytics

- Hands-on exposure to:

    - Python, R, SQL

    - AI, ML, DL, NLP

    - TensorFlow, Spark, Hadoop

    - Power BI, Tableau

- Live industry & capstone projects

- Credit-based elective selection

- Delivered by top Data Scientists

Who Should Apply
- Graduates, Engineers, MBAs
- Working professionals across industries
- Aspirants from IT and non-IT backgrounds
- Ph.D, M. Tech., M. Sc., MS In Computer Science / Physics, Maths or Economics or if you wanted to develop some data product

Career Outcomes & Roles/ Placement job title

- Data Scientist, Data Analyst

- AI/ML Engineer, AI/ML Trainer

- NLP Scientist, BI Analyst

- Hadoop/Spark Developer

- Senior Consultant Analytics

- Risk Analyst, Product Developer
- Sql developer
- Business analyst
- Data analyst
- Research analyst
- And many more

CMC, Internship & Placement

Career Management Center (CMC) at Aegis facilitates all students placement and paid internship opportunities. Paid internship are for 2 to 3 months with various companies to give them reallife live experience which generally leads to final placement as role of Data Scientist, Manager Data Science, Business Analyst, Risk Analyst etc like Accenture, Atos, Angel Broking, Cybage, edelweiss, HDFC, Ford Automotive, Fractal, VM Ware, IBM, Aditya Birla, Suzlon, Eclerx, Aureus Analytics, Deloitte, Exponentia, Clover Infotech, Value Direct, Virtusa, Credit Vidya, Shzertech, Loginext, Persistent, L & T Finance, Whizminds, Mii app, Mobiliya, Emmfer, Infrasoft, Impact Analytics, Eigen Technologies, Intelenet, Pentation, Light app, Ixsight, Softcell, Easy Farm, Free A Billion, Exponentia Data Labs, Open Insights, eClerx, Kryptoblocks, Bayer, Cuddle, Farebond etc.

Placement Highlights

Min 8.2 LPA-Freshers Minimum

12.5 LPA-Freshers Average

18 LPA-Freshers Highest

40 LPA-Experience Highest

Upto 552%-Experience Candidates Hike

Alumni Speak

"Best decision to join Aegis. Industry-relevant, hands-on learning with real projects."
— Hrishikesh Paranjpe, Angel Broking
"Capstone + product factory helped build actual products. Balanced learning curve."
— Manish Pradhan, HDFC Bank
"From fresher to Innovation Engineer at Zenlabs, thanks to Aegis."
— Namrata Tolani

Faculty & Mentors

- Dr. Abhijit Gangopadhyay – Dean

- Mukesh Jain – CTO, VFS Global

- Dr. Paul Pallath – Former SAP Chief Data Scientist

- Dr. Avik Sarkar – NITI Aayog

- Sameer Dhanrajani – CSO, Fractal Analytics

- Jurgen Hase, Vishal Dhupar (NVIDIA), and others.

Admission process

- Online Application → Interview → Offer Letter

- Scholarships available

- AICTE / UGC equivalence not required

Contact / contact information / contact us

- Email: admission@aegis.edu.in

- Phone: +91 90221 37010

- [Connect with us now](#) - our contact form

Scholarships

There are two types of scholarship available :-

1.Dean's Scholarship for Women in Technology Leadership:-

Saluting the women leaders in Technology, seen has announced the "Dean's Scholarship for Women in Technology Leadership"
What you get: 100% scholarship to study Full Time Post Graduate Program In Data Science, Business Analytics and Big Data Learn and work on Big Data Product Factory. Come out as Data Scientist or Entrepreneur

2.AGBA NATIONAL TALENT HUNT :-
The National Talent Hunt is an excellent opportunity for students to apply their knowledge from the classroom to a real world situation in the field of Data Science, AI & Cyber Security.

- 100% Scholarship/Financial Aid: The school provides 100% scholarship/financial aid for students to study Post Graduate Programs in Data Science, Business Analytics, Big Data, and Cyber Security in association with IBM.
- Work on Real-Life Projects: The students will get support to launch their own start-up in the school's incubation center in Mumbai, Pune, and Bangalore.
- Aegis Graham Bell Awards: The winners of the Aegis Graham Bell Awards will be recognized at the Largest Innovation Award event in Delhi.
- This information can be useful for students interested in pursuing data science and related fields, as the Aegis School of Data Science seems to offer a unique opportunity with full financial support and the chance to work on real-world projects and start-ups.

Stats shows the breakdown of work experience candidates joining our pgp program.
1. Work Experience Breakdown
Experience Level

More than 5 Years-12 %

 2 to 5 Years – 19%

Less than 2 Years- 44%

Fresher – 25%

2. EPGP Batch Profile
Experience

2 to 5 Years-28%

 5 to 10 Years-36%

10 to 15 Years-17%

15 to 20 Years-9%

20+ Years-10%

3. Work Experience by Sector

Sector

IT   -58.1%

BFSI -11.6%

Telecom -4.7%

Energy – 2.3%

Real Estate – 4.7%

BPO- 4.7%

Research- 2.3%

FMCG- 2.3%

HR- 2.3%

Management- 2.3%

Manufacturing & Supply
 -2.3%
Education -2.3%

Faqs

- What is Business Analytics?

+Business Analytics is the study of data, through statistical and operation analysis, formation of predictive models, application of optimization techniques and the communication of these results to customers, business partners and colleague executives. In layman terms, the data that is being generated from various sources like social media, live streaming data, real time data, in huge volume, in a fraction of seconds, needs to be studied, sorted, fabricated and fragmented, so that the data can be translated into a meaningful and vital information. As, every single organization across industries are transforming themselves into a data science driven organization, the fabricated data plays an important role to understand customer insight, products/services enhancement and up gradation, and to take strategic decisions on organizational expansion and development.

So, the wholesome and rigorous study of the huge data by using various big data and analytics tools is called Business Analytics.

- What is Big Data?

+As the e-Commerce business has grown exponentially over the last few years across industries and the organizations are becoming data science driven org. Every day, we create 2.5 quintillion bytes of data — so much that 90% of the data in the world today has been created in the last two years alone. This data comes from everywhere: sensors used to gather climate information, posts to social media sites, digital pictures and videos, purchase transaction records, and cell phone GPS signals to name a few. This data is Big Data. Big data spans three dimensions: Volume, Velocity and Variety.

- What is data science?

+Data science is the study of the generalizable extraction of knowledge from data, yet the key word is science. It incorporates varying elements and builds on techniques and theories from many fields, including signal processing, mathematics, probability models, machine learning, statistical learning, computer programming, data engineering, pattern recognition and learning, visualization, uncertainty modeling, data warehousing, and high performance computing with the goal of extracting meaning from data and creating data products.

- What is the scope of Big Data, Data Science and Business Analytics?

+Big Data & Business Analytics sector is booming exponentially per year. According to the recent study by technology researcher International Data Corp., the Big Data in India is expected to grow at nearly 38 % annually. There are n number of jobs which are vacant in every sector due to the gap that has been developed between the employees who have an edge over Data Science Tools and Techniques and supply of such employees who can add value to the organization. In current scenario the demand of such data savvy professionals is huge and supply is very less and the demand is expected to be much more in coming years. In the current developmental-phase of Big Data, Companies are investing billions of dollars in such platforms in order to transform themselves into a Data Science driven organizations.

- Which are the companies in Big Data?

+SAS, Cloudera, Hortonworks, Google, IBM, HP, EMC, Teradata, Oracle, Microsoft etc

- Is this program an MBA or Master?

+This program is hardcore technology program (MS program) and NOT inferior cousin of MBA/PGDBM programs in Business Analytics.

- Is this program an MS?

+This is a certification program, since this program is of 45 credit hours and according to North American credit based system any course which is above 36 credit unit is considered equivalent to MS.

- What is the course curriculum?

+This program is a cross disciplinary program of 45 Credit Hours. Program curriculum designed as per the Data Scientist's skills and competencies framework with the help of leading Data Scientists. This program has wide range of core and elective courses which no other institute around the world offers. Participants will get the hands on exposure on various Data Science, Big Data & Analytics tools, and software & platforms i.e Statistics, Machine Learning, NLP, Text Mining, IR, Pattern Recognition, Predictive Analytics, Prescriptive Analytics, and Visualization, R and Python, Hadoop, Spark, SAS, Business Intelligence using Cognos BI, Big Data Analytics using IBM InfoSphere Big Insight, Enterprise Performance Management using IBM Cognos TM1, Business Analytics using Cognos Insight, AWS, IBM Watson Analytics, IBM SPSS, For more information you can download the brochure by clicking on the following link:

http://www.aegis.edu.in/aegis_babd_brochure.pdf

- What are the different delivery models available?

+There are four delivery modes:

Post Graduate Program in Data Science, Business Analytics & Big Data (PGP- DS, BA & BD), Full Time (On Campus)

Executive Post Graduate Program in Data Science, Business Analytics & Big Data (EPGP-DS, BA & BD), Hybrid (On Campus + Online)

Executive Post Graduate Program in Data Science, Business Analytics & Big Data (EPGP-DS, BA & BD), Online

Executive Post Graduate Program in Data Science, Business Analytics & Big Data (EPGP-DS, BA & BD), Weekend (On Campus Weekend Classes)

- What tools and s/w will be taught in this program?

+This program has wide range of core and elective courses. Participants will get the hands on exposure on various Data Science, Big Data & Analytics tools, software & platforms. Click here to download the brochure: http://www.aegis.edu.in/aegis_babd_brochure.pdf

- What is USP of this program/How it is different?

+Aegis PGP in Data Science, Business Analytics and Big Data in association with IBM is featured among the Top 10 Analytics Courses in India. The course curriculum is the Best among Masters in Data Science programs.

– Exposure to live projects from Industry

 – The best and only masters in Data Science in India

 – Program delivered by IBM subject matter experts and best Data Scientists

 – Career Management Center to assist you in paid internship and final job placement.

 – Globally acceptable Credit Structure

 – Excellent placement

 – True Data Science Program and NOT a half baked MBA/PGDBM in Business Anlytics

 – Live Projects from industry at Aegis Big Data Product Factory

 – Most comprehensive program curriculum covering: Machine Learing, R, Python, Stats, NLP, IBM Watson, Azure ML, IBM Cognos TM1, IBM Cognos Insight, IBM InfoSphere Big Insight, SAS, Hadoop, MapReduce, Spark, ElasticSearch, Tableau, EMR, AWS etc

 Check details : http://www.aegis.edu.in/aegis_babd_brochure.pdf

- What are the eligibility criteria?

+Graduates in Engineering, Technology, Maths, Stats, Economic (BE /BTech/BSc (Maths, IT/CS), BCA, Msc, MA, MCA) or experience in BI, Analytics, IT or S/W development.

- What is the profile of participants?

+Aegis considers both fresher & experienced candidates for this program.

Freshers (Graduates in Engineering, Technology, Maths, Stats, Economic (BE /BTech/BSc (Maths, IT/CS), BCA, Msc, MA, MCA) or experience in BI, Analytics, IT or S/W development.)

Experienced (varying from 1-33 years)

- Is experience in Business Intelligence, Business Analytics & BD is required to join the program?

+Not necessarily but if you have experience in BI, BA or BD, it will be an added advantage for you to digest & grasp the concepts easily.

- In your opinion will this course provide me better prospect?

+Yes certainly if you invest time you can leverage on your rich experience.

You may also like to consult with your friends and your network in it on this issue.

Please take, informed decision we do not make any fake promises on jobs and career prospects.

- How will I be able to use various software tools in online module?

+For Online Live Interactive model we provide our participants with the access of Virtual Lab, which they use it for doing their live projects, consulting assignments also faculty will share the screen to give you an idea on how it works so that you get the exposure on it.
All other tools you can set up on your laptop like Infosphere Big Insight, R, Python, Hadoop, SAS etc. Our IT team and research associates will also guide you for the same.

- I have 15 years of experience, can I join full time course.?

+Yes you can, depending upon your profile. In full time program we maintain 50 -50 ratio. 50% intake of those candidates who have (0-5 years of exp) and rest 50% have (5-10+ years of exp) from different sectors i.e (BFSI, KPO, Consulting, Education, Energy, FMCG, IT, Manufacturing, Real Estate, Telecom, Research etc.)

- Who are the faculty members?

+This program is delivered by best Data Scientist engaged in real-life Data Science and Big Data Analytics projects from around the world

- What is the class schedule for Post Graduate Program in Data Science, Business Analytics & Big Data Full Time?

+Full Time Post Graduate Program (On Campus):
9 months of Classroom training + 2-3 months of Internships, 3 terms each of 3 months, 6 days a week, rigorous classes.
Final class schedule for every batch is uploaded on LMS (Learning Management System) and is available to participants.

- What is the class schedule for Executive Post Graduate Program in Data Science, Business Analytics & Big Data Hybrid mode?

+Executive Program in Online model (Online Live Interactive Sessions)
3 terms each of 3 months, Online live interactive classes on every Saturday and Sunday. Final class schedule for every batch is uploaded on LMS (Learning Management System) and is available to participants.

- What is the class schedule for Executive Post Graduate Program in Data Science, Business Analytics & Big Data Weekend mode?

+Executive Post Graduate Program in Data Science, Business Analytics & Big Data Weekend mode:
3 terms each of 3 months, Classroom training on every Saturday & Sunday. Final class schedule for every batch is uploaded on LMS (Learning Management System) and is available to participants.

- If I miss online class, will I be able to attend the same class in future?

+Aegis has a Learning Management System (LMS) & every session is recorded and stored there. All of the participants will be provided with access to LMS.
If a candidate misses any lecture, he/she can access the recorded session any time.

- If I join for the hybrid model or Weekend, can I change it to online mode if the on dates are not suitable?

+Yes & the difference amount will be credited back to your account.

- What will be the class timings for Executive Post Graduate Program in Data Science, Business Analytics & Big Data Online/Hybrid Mode?

+There will be around 6- 7 hours of lectures on each day & the class timing will be from 10.00am-5.00pm (IST) Saturday and Sunday respectively. Exact class schedule will be uploaded on LMS (Learning Management System) a week before. In certain cases if required the class may extend to even 7pm.

- Who will provide the internship?

+Aegis has a dedicated Career management center for candidates. Who take care for internships, project works, consulting assignments & final placements?

- Will internship paid or free?

+Internship will be on paid basis depending upon your profile.

- Will I get job after internship?

+If you successfully complete the internship and if you perform well then definitely you will get the pre-placement offer from the employer.

- How I can do internship if I join online model?

+This is the look out of Aegis' Career Management Center. If you are applying for the online model you will have to seek permission from management for sabbatical leave for two to three months of internship, you can seek same opportunity within your organization.
If there is no such policy in your company than Aegis will provide you the projects & consulting assignments in between.

- Which companies come for Internships and placements?

+Angel Broking, HDFC, IBM, Exponentia, Clover Infotech, Value Direct, Virtusa, Credit Vidya, Guppy Media, Shzertech, Loginext, Persistent, L & T Finance, Whizminds, Ford Automotive, Mii app, K2 Analytics, Eclerx, Mobiliya, Emmfer, Aangan NGO, Suzlon, Infrasoft, VM Ware, Impact Analytics, Eigen Technologies, Intelenet, Pentation, Lightsapp, Ixsight, Softcell.

- What kind of project is expected to be done at the end of the program?

+We offer various projects under Aegis' Big Data Product Factory as a core part of the program, which provides the participants hands on exposure on various Data Science tools, technique and platforms and provide them the opportunity to work on real time problem statements, Following are the projects:.
– Churn Prediction & Call Drop Analysis Project for leading telcos
-Text Mining project for an automobile company
-Fraud Detection Project for a leading Bank in India
– Developing recommendation engine
– Create hadoop clusters, real time Customer & Internet Data Analysis for a leading Internet Service Provider
– Cognitive Chat for E-commerce companies and health care sector
– Live student performance predictor for MOOC Platforms & Educators
Also note that our industry experts will guide & mentor you about the projects.

- Is job guaranteed after the program?

+Aegis do not provide any job guarantee.

Aegis provide you a platform where our rich faculty & industry experts from diversified background will train and guide you as per the industry demand.
Our Career management center takes care of the internship and final placement. Having said that, candidate's performance matters a lot.

- Where is the campus?

+We have our Data Science Boot Camp Training Facility in Mumbai.

- How & where I can apply?

+You need to apply online and please refer to the following links;
Post Graduate Program in Data Science, Business Analytics & Big Data (Full Time) ([click here to view details and Apply](#))
Post Graduate Program in Data Science, Business Analytics & Big Data(Live Interactive Online) ([click here to view details and Apply](#))
Executive Post Graduate Program in Data Science, Business Analytics & Big Data (Live Interactive Online Model)Application fee: 500.00 INR
Location: Online Live([click here to view details and Apply](#))
Executive Post Graduate Program in Data Science, Business Analytics & Big Data (Weekend On-capmus model) ([click here to view details & Apply)](#)

- What is the admission process?

+To apply for the program, candidates must fill out an application form and submit it along with the required documents. Applications can be submitted online at
The selection process for the program includes an online aptitude test, followed by an interview with the admissions committee. Candidates who pass the aptitude test and interview will be offered a place in the program.

- What is the interview regarding?

+The interview is personal interview. The purpose of the interview is to assess:
1- Clarity about the objective for joining the program.
 2- Learnability / Learning attitude.
 3- Awareness about the Big data and Data Science
 4- Adaptability into the system.
 5- Skills & the employability.
 6- It will also provide you a platform where you can have a dialogue with Dean & senior faculty members.

- What kind of questions I will be asked in interview?

+It would be a general interview the interview panelists will judge & gauge you on the basis of you basis know how about the program & Data Science sector.
Sample questions could be:
1- Why do you want to join this program?
 2- How it will help in your career & what would be the future prospects?
 3- Why do you think that you are the right candidate for this program?

- Is there any scholarship?

+Yes there are 3 Scholarships we offer to the candidates who want to join Full Time PGP in Data Science, Business Analytics & Big Data:
1- Dean's Scholarship for Women in Technology Leadership
2- Aegis Graham Bell Award Scholarship for Big Data Products for startups.
3- Data Science Scholar for those who want to make career in academics, research and consulting.
These scholarships will provide 100% funding for tuition fee for the program.

- Can I get study loan?

+Yes Aegis has a tie up with Avanse Financial Service & HDFC Credila for education loan.

- What is the procedure for loan?

+Post interview if you are shortlisted, Aegis will forward your profile to the concerned person who is handling education loan and you will also be provided with the contact information of the person.

- I am having a rich experience of 20 years, in your opinion will this course provide me better prospect?

+You as a candidate will bring the value on table by acquiring the skills and demonstrating to employers as an experienced person & you will appreciate that fact. Job will be function of you demonstrating your skills acquired during the program.

Post Graduate Program in Data Science, Business Analytics & Big Data will certainly open door for interview but not a Job.

We have candidates in the previous batch with experience in the range of 2 years to 33 years

This is not a short term course it is intensive 11 months program which will require you to invest over 15 to 20hrs of input in the studies.

- How is it possible for me to get a feedback from any of your old students who have taken this course?

+Yes certainly you can interact with our previous batch students on the very same day when your interview is scheduled in our campus. Once you get the admission offer letter, we will connect you with other participants of this program.

You can also connect them over LinkedIn.

- Do I need to do coding/programing in this program?

+Yes it is good if somebody has the basic knowledge and understanding of Coding/Programming. For course like Hadoop understanding of Java is required but if any participant is not comfortable with java then they can learn Spark which is advance version of Hadoop, which does not require Java Knowledge.

- Whom should we contact for queries?

+To get in touch with the admissions team at Aegis, candidates can visit the Aegis website and fill out the contact form, or send an email to admission@aegis.edu.in. They can also call the admissions team at +918291693262