Byte Quest

Department of
CSE

DATAFICATION

DIGITAL TRUST

COMPUTING POWER

GENOMICS

Department Vision

To be a center for academic excellence in the field of Computer Science and Engineering education to enable graduates to be ethical and competent professionals.

Department Mission

To enable students to develop logic and problem solving approach that will help build their careers in the innovative field of computing and provide creative solutions for the benefit of society.

FACULTY COORDINATORS

S. KOMAL KAUR
(ASST. PROFESSOR)
T. NISHITHA
(ASST. PROFESSOR)

STUDENT COORDINATORS

CHANDRASHEKAR (2/4) CSE B
ANISHA (4/4) CSE B
AKASH (3/4) CSE C

DATAFICATION

Datafication is simply transforming everything in our life into devices or software powered by data. So, in short, Datafication is the modification of human chores and tasks into data-driven technology. From our smartphones, industrial machines, and office applications to AI-powered appliances and everything else, data is here to stay for longer than we can ever remember! So, to keep our data stored the right way and secure and safe, it has become an in-demand specialization in our economy. Datafication leads to a higher need for IT professionals, data scientists, engineers, technicians, managers, and so much more. Even more useful is that anyone with a sound knowledge of technology can do a certification in data-related specializations to find a job in this space.
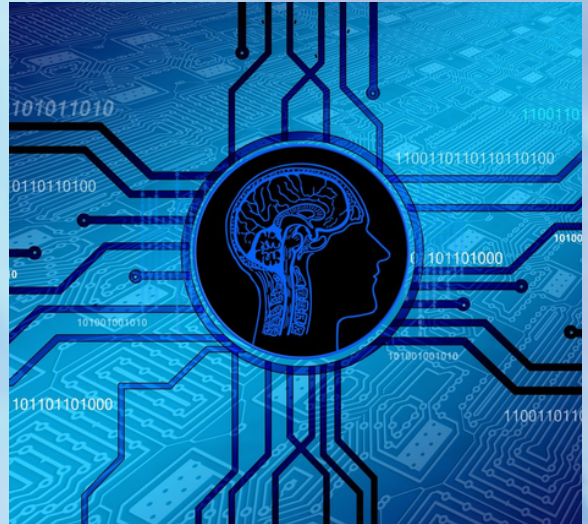
Data jobs are more about skills than big-level qualifications, and we have so many successful leaders emerging from smaller cities and developing countries like India. You can also equip yourself with this useful trending skill by doing a course like RPA to help you understand how automation works in the world of data.

DIGITAL TRUST

With people being accommodated and tangled with devices and technologies, confidence and trust have been built towards digital technologies. This familiar digital trust is another vital trend leading to more innovations. With digital conviction, people believe that technology can create a secure, safe and reliable digital world and help companies invent and innovate without worrying about securing the public's confidence. To create a safer space for digital users, cybersecurity and ethical hacking are the major specializations you can check out.

In these two, there is an array of jobs you can discover from junior to senior levels. For ethical hacking, you might have to take up professional certifications, while for cybersecurity, a diploma or even a master's qualification is sufficient to aim for a high-salary role. Here are the top jobs you can find in cybersecurity and ethical hacking:
- Cybersecurity Analyst
- Penetration Tester
- Security Engineer

Byte Quest

COMPUTING POWER

Computing power has already established its place in the digital era, with almost every device and appliance being computerized. And it's here for even more as data science experts have predicted that the computing infrastructure we are building right now will only evolve for the better in the coming years.

At the same time, we have 5G already; gear up for an era of 6G with more power in our hands and devices surrounding us. Even better, computing power is generating more tech jobs in the industry but would require specialized qualifications for candidates to acquire. From data science to robotics and IT management, this field will power the largest percentage of employment in every country. The more computing our devices will need, the more technicians, IT teams, relationship managers, and the customer care economy will flourish.One essential branch under this field that you can learn today is RPA, i.e. Robotic Process Automation. RPA is all about computing and automation software that can train you for a high-paying role in the IT industry. Here are the top jobs you can target after RPA:

- Data Scientist
- AI Engineer
- Robotics Researcher
- AI Architect
- Robotics Designer

GENOMICS

Imagine a technology that can study your DNA and use it to improve your health, helping you fight diseases and whatnot! Genomics is precisely that technology that peruses upon the make-up of genes, DNAs, their mapping, structure, etc.

Genomics vs Genetics

Genomics
- The study of an organism's complete set of genetic information.
- The genome includes both genes (coding) and non-coding DNA.
- 'Genome': the complete genetic information of an organism.

Genetics
- The study of heredity
- The study of the function and composition of single genes.
- 'Gene': specific sequence of DNA that codes for a functional molecule.

Further, this can help quantify your genes and result in finding diseases or any possible problems that can later be a health issue. When it comes to a specialization like Genomics, one can find a variety of technical as well as non-technical roles. Technical jobs in this area are all about designing, analyzing, and diagnostics, while non-technical jobs are concerned with higher levels of research and theoretical analysis. Here are the top jobs in Genomics:

- Bioinformatics Analyst
- Genome Research Analyst
- Full Stack Developer
- Software Engineer
- Bioinformatician
- Genetics Engineer

BROUGHT TO YOU BY

**Department of
Computer Science and Engineering**

Vasavi College of Engineering