



Projects · NTHRYS Biotech Labs

Computational Mathematics > Optimization Algorithm Analytics Platforms > Workforce Scheduling and Resource Allocation Tool

Workforce Scheduling and Resource Allocation Tool

[Computational Mathematics](#) → [Optimization Algorithm Analytics Platforms](#)

Contact +91-8977624748 for joining process

Visit ASCEND Portal for more details →

An enterprise platform using integer programming and heuristic algorithms to optimize employee schedules, minimize labor costs, and balance service levels across retail and hospitality operations. It captures revenue through per-location licensing (\$5K-\$50K annually) with upsells for advanced analytics.

Offline: Hands-on program carried out in person at a NTHRYS Biotech Labs branch, with wet-lab access and on-site mentorship.

Online: Conducted remotely using in-silico (computer-based) methodologies, with digital resources and guided support.

Academic: Curriculum-aligned track focused on fundamentals and structured learning, suited to coursework and academic credit.

Professional: Career-oriented track emphasising applied, job-ready skills and professional practice.

Industrial: Industry-focused track centred on real-world processes, industrial techniques and production-relevant workflows.

Branches Info:

- Hyderabad (HQ) - Flat 201, Plot # 140, Street Number 22 Telecom Nagar Extension, Gachibowli Hyderabad, Telangana 500032 India
- Bengaluru - 2nd Floor, Transform House, 41, 7th A Cross Rd, Bahubali Nagar, Jalahalli, Bengaluru, Karnataka 560013
- Chennai - 17/1, Srivari Apartments, Dr. Subbarayan Nagar, 6th St, Kodambakkam, Chennai, Tamil Nadu 600024
- Kochi - 5-A, Aroma Gardens, Lisie Junction, SRM Road, Ernakulam, Kochi, Kerala 682018

Duration: 5 Days, 10 Days, 15 Days, 20 Days, 1 Month, 45 Days, 2 Months, 3 Months, 4 Months, 5 Months, 6 Months, 7 Months, 8 Months, 9 Months, 10 Months, 11 Months, 1 Year