

Thilakkumar V

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EDUCATION

National Institute of Technology, Tiruchirappalli <i>Bachelor of Technology in Civil Engineering, Minors in Computer Science</i> <i>Relevant Coursework: Data Structures, DBMS, Artificial Intelligence, Operating Systems, Software Engineering</i>	2020 – 2024 8.21 CGPA
Shree Niketan Matric. Hr Secondary School, Chennai <i>Class XII, Central Board of Secondary Education</i>	2020 91.17%
Vivekananda Vidyalaya, Chennai <i>Class X, Central Board of Secondary Education</i>	2018 95.20%

EXPERIENCE

Business Analyst Intern BlockTrack <i>An IIT Madras incubated Health-tech startup specializing in Blockchain and SaaS products</i>	May 2023 – July 2023 Chennai, TN
<ul style="list-style-type: none">Conducted competitive analysis of 50+ rivals, identifying trends and fostering collaboration.Applied PEST analysis to refine market positioning, boosting profit margins by 5% and market share by 15%.Designed advanced insurance modules, enhancing functionality and targeting a 75% increase in customer base.Analyzed 2000+ stakeholder surveys, deriving insights that informed 6 strategic action plans.	

PROJECTS

Predictive Drought Risk Model Python, ArcGIS, EC-Earth3, MLR, SVM, Looker Studio	Jan. 2024 – May 2024
<ul style="list-style-type: none">Automated drought model using 70+ years of historical and 80 years of projected data with CMIP6 framework.Improved predictive accuracy by 20% with advanced bias correction techniques (MLR, SVM)Performed 7.5 lakh SPI iterations to quantify drought characteristics in the Cauvery River Basin.Developed interactive dashboards and spatial visualizations with Google Earth Engine for actionable insights.	
YouTube Revenue Forecast System Machine Learning, Pandas, Scikit-learn, SQL, Folium	Nov. 2023
<ul style="list-style-type: none">Executed Data Cleaning: Addressed outliers, null values, and empty records to ensure robust dataset quality.Conducted Exploratory Data Analysis (EDA): Created choropleth maps and informative bar charts to reveal subscriber concentrations, regional trends, and niche opportunities within channel categories.Engineered Features: Developed “Engagement Rate” feature and applied data scaling for model consistency.Developed Predictive Models: Applied hyperparameter tuning for model optimization, Achieved 93% accuracy with Linear Regression, 100% with Decision Tree, and 95% with Random Forest for forecasting channel earnings.	

TECHNICAL SKILLS

Languages: Python, SQL (MySQL), C/C++, JavaScript
Libraries: Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn, TensorFlow
Web Stack: HTML/CSS, ReactJS, Node.js, Express.js, Tailwind, Bootstrap
Tools: PowerBI, Advanced Excel, Tableau, Looker Studio, Jupyter Notebook, MATLAB, VS Code, Google Cloud Platform
Certifications: Data Analysis and Visualization using Python, Excel and Cognos, Databases & SQL for Data Science

POSITIONS OF RESPONSIBILITY

Chairperson, Nittfest'23 The Annual Cultural Festival of NIT Trichy	March 2022 – May 2024
<ul style="list-style-type: none">Led and coordinated a 3-tier team of 250+ members, executing 80+ events for 12000+ students.Managed a 75 lakh INR budget with strategic marketing, promotions, and risk management.Organized events featuring high-profile guests like Dr. Kamal Haasan, partnering with 7+ production houses.Increased corporate funding by 70% through innovative branding and outreach initiatives for 50+ companies.	
Consultant 180 Degrees Consulting, NIT Trichy	Jan. 2022 – May 2024
<ul style="list-style-type: none">Handled 4 consulting projects (3 start-ups, 1 NGO), with an NPS of 100% across clients.Within the FinTech Innovation Project, BharatX, conducted primary research on 10+ professional education loan systems, analyzed 5-year Indian Ed-Tech market growth with 7 parameters, and devised 3 innovative strategies for a microcredit company's entry into the education loan market.	