

# Thilakkumar V

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## EDUCATION

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

## EXPERIENCE

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

## PROJECTS

<b>Predictive Drought Risk Model   Python, ArcGIS, MLR, SVM, Data Studio</b>	<b>Jan 2024 – May 2024</b>
<ul style="list-style-type: none"><li>Integrated historical data &amp; EC-Earth3 projections under CMIP6 framework, covering 6500+ rain gauge stations.</li><li>Enhanced predictive <b>accuracy by 20%</b> with advanced bias correction techniques (MLR, SVM)</li><li>Automated 7.5 lakh SPI iterations to quantify drought characteristics in the Cauvery River Basin.</li><li>Designed interactive dashboards and spatial visualizations using <b>Google Earth Engine</b> for actionable insights.</li></ul>	
<b>YouTube Revenue Forecast System   Machine Learning, Pandas, Scikit-learn, SQL, Folium</b>	<b>Oct 2023 – Dec 2023</b>
<ul style="list-style-type: none"><li><b>Executed Data Cleaning:</b> Addressed outliers, null values, and empty records to ensure robust dataset quality.</li><li><b>Conducted Exploratory Data Analysis (EDA):</b> Created choropleth maps and informative bar charts to reveal subscriber concentrations, regional trends, and niche opportunities within channel categories.</li><li><b>Engineered Features:</b> Developed the “Engagement Rate” feature and applied data scaling for model consistency.</li><li><b>Developed Predictive Models:</b> 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.</li></ul>	

## 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  
**Dev Tools:** PowerBI, Advanced Excel, Tableau, Data Studio, Jupyter Notebook, MATLAB, VS Code, Google Cloud Platform  
**Certifications:** Data Analysis and Visualization using Python, Excel and Cognos, Databases & SQL for Data Science

## LEADERSHIP / ACTIVITIES

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

## ACHIEVEMENTS

<b>Secured 2nd Position</b> at TransfiNITTe'23, a 42-hour long hackathon on software projects	<b>Oct 2023</b>
<b>Winner - Bid and Build</b> , eSummit'23, IIT Bombay	<b>Feb 2023</b>