

Thilakkumar V

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EDUCATION

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

EXPERIENCE

Business Analyst Intern BlockTrack	May 2023 – Jul 2023
An IIT Madras incubated Health-tech startup specializing in Blockchain and SaaS products	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, MLR, SVM, Looker Studio	Jan 2024 – May 2024
<ul style="list-style-type: none">Integrated historical data & EC-Earth3 projections under CMIP6 framework, covering 6500+ rain gauge stations.Enhanced predictive accuracy by 20% with advanced bias correction techniques (MLR, SVM)Automated 7.5 lakh SPI iterations to quantify drought characteristics in the Cauvery River Basin.Designed interactive dashboards and spatial visualizations using Google Earth Engine for actionable insights.	
YouTube Revenue Forecast System Machine Learning, Pandas, Scikit-learn, SQL, Folium	Oct 2023 – Dec 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 the “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
Dev Tools: PowerBI, Advanced Excel, Tableau, 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

Chairperson, Nittfest'23 The Annual Cultural Festival of NIT Trichy	Mar 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 sponsorship by 70% through innovative branding and outreach for 50+ companies.	
Consultant 180 Degrees Consulting, NIT Trichy	Aug 2022 – May 2024
<ul style="list-style-type: none">Handled 4 consulting projects (3 startups, 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.	

ACHIEVEMENTS

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