

# Support Vector Machine

## Lagrangian Multiplier and KKT Conditions Formulation

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Matteo Conti

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# Table of contents

1. Initial Formulation
2. Final Formulation
3. QP Optimization
4. Soft-Margin Assumption
5. Non-Linear Kernels

# Initial Formulation

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## Final Formulation

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# QP Optimization

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## Soft-Margin Assumption

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# Non-Linear Kernels

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